BUSINESS WEEK



START OF WAR 1939

AGO

h the

to the have than clerks

offset dustry, onomy opulanakers, countavated But, nd job finally

going erably with saved work etum

rating nough vilian total vilian

man-Mand for omen 14-in labor Vashmanjobs lants,

licity
the
mong
manoring
manand
illizaower
life.

reek

1943

INESS EK EX

PUBLISHED BY THE MEGRAWHILL PUBLISHING COM TO THE

3-5

VAN VEROR RICH DENT TIBEVEL DAIA OF MICH

Remember the man who wanted a law against machinery?

HE actually tried to get such a law passed in 1933. He thought new, improved machines put men out of work.

Nobody was ever more wrong.

First, if he had had his way, we would have lost the war long ago. It is only America's modern, faster machine tools that have made it possible for this country to turn out more weapons in two years than our enemies were able to make in ten.

Second, if he had had his way, we never would have recovered from the depression. Better tools enable a workman to turn out more and better products which means these products cost less. That means more people can and will buy them, and that is what makes jobs—it is the only way to make jobs—good jobs at good wages... But the less a man makes, the higher its cost; the fewer people there are who can buy it—and the sooner the market is saturated and the workman's job finished. That workman has idled himself out of his job.

When this war is over, there will be hundreds of thousands of modern machine tools in America. Used efficiently to make peace-time goods at low cost, they will give everyone more of the things we all will need, at a price more people can pay—and that is the way and the only way our returning soldiers can be sure of the jobs they deserve.



WARNER
SWASEY
Turret Lathes
Cleveland

A typi

ated it

YOU CAN TURN IT BETTER, FASTER, FOR LESS... WITH A WARNER & SWASEY



The rubber navy-a fleet a week

typical example of B. F. Goodrich improvement in rubber

HAT workman is unfolding a ship. When it's unwrapped and pumped it will be another of those cargo ming boats you see in the back-able to carry 6,000 pounds. The navy wanted a boat capable of ming supplies from ships to shores are there were no docks. They attend it of rubber so several could carried, collapsed, on a supply ship thout taking up valuable space—

I pumped up when needed. Several manies started making them.

The accepted method was to cure rubberized fabric, cut it to shape, and cement the edges. As many as seven coats of cement were needed; each had to dry; and even then the seam was none too strong.

B. F. Goodrich men set out to find a better, faster way. They built forms, the shape of the finished boat. Then they cut the uncured rubberized fabric, shaped it over these forms, and vulcanized it. In vuscanizing, the rubber flowed together at the seams, making a stronger joint. Only one coat of cement was needed. The result by the B. F. Goodrich method was a stronger boat made in less time. Vulcanizing at first took 15 hours. New methods brought it down to three hours and finally to only 50 minutes.

B. F. Goodrich is turning out a whole fleet every week (the number is secret) and has made its methods and experience available to all other manufacturers. The B. F. Goodrich Co., Industrial Products Division, Akron, Ohio.

B. F. Goodrich

RUBBER and SYNTHETIC products

"My extra dollars won't cause Inflation!"



Many Americans have extra income at their disposal these days. It's money that could be a menace to all of us, for too much spending at a time when civilian merchandise is limited would naturally shove prices sky-high.

Fortunately, we have in War Bonds a ready-made device that can stop Inflation. Every dollar you put in this safest of investments is a dollar which you will have for necessary post-war purchases, and a dollar which will no longer help shove prices out of reach. War Bonds are essential from two points of view. They provide our men with fighting weapons. They also protect us here at home.

At SICSP, we're buying War Bonds regularly ... and then, buying a few extra ones. We're turning out ball and roller bearings to help put the skids under the Axis . . . and our dollars are helping in the fight for Victory.



BACK THE ATTACK ··· WITH WAR BONDS

BUSINESS WEE WA

isines:

Foreign nited S it-and-ta two bus we just dward R tary of Foreig ows th siness. For the e mach

onomic

Crowle

rbs thr hich for ins-Cro mic W

dministr

office of on. It lept.'s O

norganiz nd succe

ne's hair

crowle'

Crowle

unoffic

gn Eco anding

all exc

ons. He

tam, Cr

nius rui

he State

Crowle

t the V

lull had

re reti ed up w

bff, he

eep-your

es trans reign olidated tup pro mains !

as a

Mergin

FEA 1

us was ent pul

tate's g

peration

doesn'

esult. Crowle

WHERE TO FIND IT
Washington Bulletin
rigures of the Week.
The Outlook
General News
The War-and Business Abroad
Canada
war business Checklist
Production
New Products
Marketing
Labor
Finance
The Markets
The Trading Post
The Trend

THE PICTURES

over-Harris & Ewing; 14-Acme; 15-11 28 Ewing; 17—(upper) Acme, (lower) Int. Mars. 19, 22—Press Assn.; 38—(upper) Int. News; 100—(left) Hams. Ewing, (right) Wide World.

THE STAFF

Publisher, Willard Chevalier • Manager,
Montgomery • Editor, Ralph Smith • Ma
Editor, Louis Engel • Assistant Managing E
Clark R. Pace • News Editors, Richard I
Raymond A. Dodd (Illustration).
Foreign, John F. Chapman • Production
W. Dodge • Law, J. A. Gerardi • Finance
McK. Gillingham • Marketing, Phyllis

(Washington) • Industry Clarence Judd (
Washington) • Industry Clarence Judd

McK. Gillingham • Marketing, Phyllis (Washington) • Industry, Clarence Judd land) • Economics, Sanford S. Parker • M. S. Pitzele • Washington, Irvin D. Foos, L. Cobbs, Stuart Hamilton.

Editorial Assistants, Brownlee Haydon (Au Foreign Editor), John Hoffman, C. Arthur Richard M. Machol, M. J. Montgomery, Richter, Margaret Timmerman, Doris I. Wh

Statistician, Alice McFall • Librarian, Ruth Editorial Bureaus—Chicago, Arthur Vaz singen, Mary Richards • Detroit, Stanle Brams • San Francisco, Cameron Roberts Washington, McGraw-Hill Bureau, Staff spondents throughout the United States, anada, Latin America, Great Britain and Soviet Union.

District Managers — Atlanta, R. C. Maulti Boston, Nelson Bond • Chicago, Arthur wardine, R. N. Whittington • Cleveland, I DeGraff, S. D. R. Smith • Detroit, C. Crandall • Los Angeles, R. N. Phelan York, H. E. Choate, J. R. Hayes, J. H. S. son • Philadelphia, H. C. Sturm • San Fran J. W. Otterson . St. Louis, G. G. Sears.

BUSINESS WEEK . OCTOBER 2 . NUMBER

(with which is combined The Annalist and Magazine of Business). Published weekly McGraw-Hill Publishing Company, Inc., McGraw-Hill Publishing Company, Inc., H. McGraw, Founder and Honorary Chair Publication office, 99-129 North Broadway, A. 1, New York. EDITORIAL AND EXECUTOFFICES, 330 W. 42ND ST., NEW YO. 18, N. Y. James H. McGraw, Jr., Press Howard Ehrlich, Executive Vice-President; C. W. McGraw, Treasurer; J. A. Gerardi, Sect. Allow ten days for change of address. About scriptions address: J. E. Blackburn. Ir. Direct. scriptions address: J. E. Blackburn, Jr., Direct Circulation, Business Week, \$30 W. 42nd St New York 18, N.Y.

Subscription rates — United States, Mexico, Central and South American countries \$5, year. Canada \$5.50 for a year. Entered as as class matter December 4, 1936 at the Post of at Albany, N. Y., under the Act of Marc 1879. Return postage guaranteed. Printed U. S. A. Copyright 1943 by the McGraw Publishing Company, Inc.

Business Week • October 2, 19

WASHINGTON BULLETIN

WHAT THE WASHINGTON NEWS MEANS TO MANAGEMENT

usiness in Diplomacy

Foreign economic operations of the nited States will shoulder aside silkt-and-tail-coat diplomacy from now on two business men use the power they ave just been given. Appointment of dward R. Stettinius, Jr., as Under Sectary of State and of Leo T. Crowley Foreign Economic Administrator ows that the White House means siness

For the first time, the U.S. now has e machinery for a hard-hitting foreign onomic policy.

Crowley's new outfit, OFEA, abhich formerly handled foreign operaons-Crowley's own Office of Eco-omic Warfare, Stettinius' Lend-Lease dministration, and Herbert Lehman's office of Foreign Relief & Rehabilitation. It also swallows up the State lept.'s Office of Foreign Economic Cordination, which attempted to tie our norganized economic policies together nd succeeded only in getting into everyne's hair.

crowley Forced Issue

15—Ha Int. Ne News; Harris

anager,
Mai
aging E

duction Financi yllis udd (

er •

Foos,

n (As

Ruth
Van
Stanle
obertse
Staff
tes, a
n and

Maults Arthur land, I it, C. an * H. So n Fran

UMBER

st and weekly nc., J. Chain way, Al ECUT W YO President; C

About

Direct

2, 19

Crowley emerges from the shakeup as unofficial "Secretary of State for Foren Economic Affairs." The under-ending is that he is to have his head all except the broadest policy deciam, Crowley carrying the ball, Stetin the State Dept.

Crowley himself forced the showdown the White House. If Sec. Cordell the White House. If Sec. Cordell hall had agreed to absorb the Office f Economic Warfare, Crowley would are retired from the scene willingly. led up with constant sniping by Hull's laff, he put it to Hull on a take-it-or-arp-your-hands-off basis. Hull refused a do either. The new alignment is the

Crowley's OEW and the two agents transferred to him-Lend-Lease and oreign Relief-eventually will be conmeign Relief—eventually will be con-didated into a single unit. The new tup probably will stand as long as Hull mains Secretary of State.

as a Russian Angle

Merging Lend-Lease into the new lexico, es \$5.0 as so Post O Marci Printed FEA left Stettinius out of a job, but is was not the main reason the Presi-ent pulled him into the State Dept. late's gingerly handling of economic perations has convinced Roosevelt that doesn't understand the economic approach. More and more, he is relying on pragmatic business men to handle negotiations.

Moreover, in the all-important job of getting along with Russia, business men like Stettinius and W. Averell Harriman, head of an economic mission to Russia last year, have got along better with the Soviets than some of our professional diplomats.

Harriman, incidentally, is slated to become the next ambassador to Moscow.

Global Job for Lehman

Lehman will mark time as special assistant to the President until November, when he will take over the United Nations Relief & Rehabilitation Administration, which will be set up at the next big international food conference. Murray Latimer, on leave from the Railroad Retirement Board, will take over what remains of Lehman's outfit under Crowley. Bernhard Knollenberg, now senior Deputy Administrator of Lend-Lease, will move into Stettinius' spot. Laughlin Currie, on loan from the White House, will continue to head up OEW.

Truman's New Line

The Truman committee of the Senate, which has had a big hand in keeping the war production program on the track, is now trying to figure what influence it can exert on the postwar period. It doesn't see any future in a war contracts muckraking expedition such as followed the last war, thinks damages recovered by postwar exposure of any frauds would be negligible. More interesting to committee members is a project aimed at insuring the survival of warborn industries and materials that hold promise of high peacetime value.

First Project—Magnesium

Of particular fascination to the Truman group is the field of light met-als, notably magnesium. Members are

Other Washington reports in this Output, page 15; Civilian Funnel, 17; WPB Simplifies, 24; Navy Is Balked, 27; Glycerin Is Back, 34; Higher Oil Price?, 38; Big "VT" Credit, 106. Washington trends of importance to management are also discussed weekly in The Outlook and other regular departments of Business Week

saying that nothing should be permitted to restrain the impetus that the war has given the production of this magic metal. They are talking about bringing pressure for the creation of magnesium fabricating facilities (now a bottleneck) and for the encouragement of manufacturers in developing programs for wide utilization of magnesium.

Postwar Hush-Hush

Reluctance of war contractors to talk postwar plans openly for fear of incurring official displeasure is reaching a pretty pass, now that many of them live in fear of cutbacks and cancellations for other reasons.

The situation has been particularly sensitive in California ever since the War Production Board announced that, wherever necessary, it would scale the Golden State's war business down to match the labor supply.

When a California legislative committee recently opened a hearing in Los Angeles to appraise postwar problems, only one man from the aircraft parts industry showed up. He said others were afraid that if they spoke, the government might kick out their contracts. So arrangements were made to take their testimony by questionnaire, information to be made public, names withheld.

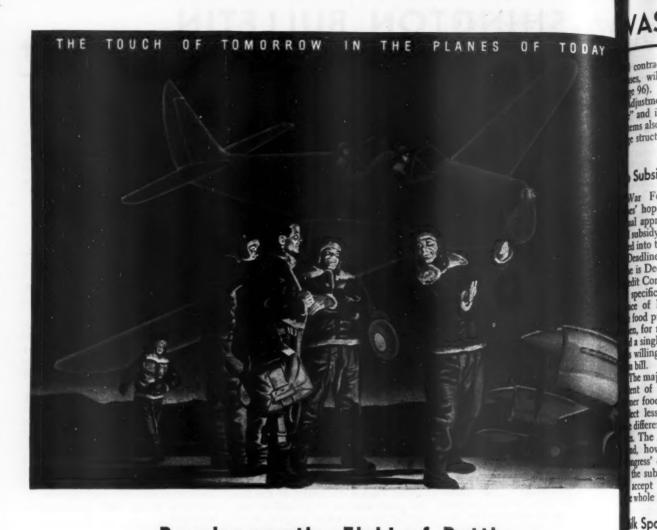
"Little Steel" Bypass

Vigorous complaints by railroad union leaders underline the probability that an emergency board's recommendation limiting a wage increase to 300,-000 rail operating employees to 4¢ an hour may be the last major restraining action under the Little Steel formula.

The yardstick (15% above Jan. 1, 1941, rates) won't be scrapped outright because it is working to hold the line in most run-of-the-mill wage cases. But it will be bypassed to an increasing extent from now on because the government has found that "solid" wage freezing hurts production.

Ways around the Line

By "reclassifying" the wages of employees of the Boeing Aircraft Co.'s Washington plants, the National War Labor Board gave virtually every employee a wage boost, even though the company's wage scale had been adjusted previously in line with Little Steel. Present indications are that the new Illinois



Reunion on the Field of Battle

These are Fairchild alumni—fighting men from Norway, Canada, the U. S. A.

Though they come from different parts of the world, these skillful warriors of the United Nations Air Forces have much in common.

Typical of thousands of fliers on every fighting front, each was given an intensive course in a Fairchild Primary Trainer as one important step on the road to winning his wings. Their meeting upon some distant airfield is virtually a reunion of "old grads" of the same Alma Mater.

It is easy to understand why the Air Forces choose Fairchilds for primary training.

There is the element of added safety. For example: quick take-offs and steep climbs can be performed by novices in a Fairchild Trainer without danger of stall-

ing, which caused so many fatalities in the last wa The trainee, behind a 175 or a 200 horsepower Rang engine, just "pours on the coal" and he's quickly i the air with a lot of runway to spare.

And when it comes to acrobatics, which give a traine an intimate feel of the controls and teach him instintive flying, a Fairchild is the answer to an instructor prayer. No need to crush the student's confidence it telling him not to dive at 200 miles an hour. Just teach him all the tricks in the bag, with the full knowleds that safety has been built into every inch of ever Fairchild Trainer.

Maneuverability with great safety, and rugged landin characteristics—for which all Fairchild trainer are famous—provide the foundation stone of Fairchild "touch of tomorrow in the planes of today."

BUY U. S. WAR BONDS AND STAMPS



ENGINE AND AIRPLANE CORPORATIO

Ranger Aircraft Engines Division, Farmingdale, L. I.

Fairchild Aircraft Division, Hagerstown, Md. . . . Burlington, N. C.

Duramold Division, New York, N.

Jones's ganization the stitute

ess had

lls for

ducers.

The su

lk shor

the real

thit on

gthe sh that th ofitable

iv cow

Surv

Appoin

oductio

ign to finecessa The n

loint

sident

VASHINGTON BULLETIN (Continued)

contract, providing substantial inses, will be approved by NWLB e 96).

djustment of wages to the "going

and installation of wage-incentive ns also are working to thaw frozen e structures.

Subsidy Armistice

War Food Administrator Marvin hope of getting speedy congresal approval of his food production mbsidy program for 1944 has evapo-

Deadline for the eventual comproe is Dec. 31, when the Commodity dit Corp. will expire if not renewed specific congressional action. Evie of how Congress feels towards food program was concretely shown n, for nearly a week, Jones couldn't a single member of the House who s willing to introduce the life-exten-bill. The major point of controversy is the

ent of Jones' proposal to set conner food price ceilings at levels that et less than farm support prices, differences to be made up by subsis. The Administration has the upper d, however, because, in spite of agress' opposition to certain features he subsidy program, it isn't willing accept the responsibility for killing whole thing.

lk Spoiled Hopes

lones' strategy for lining up the farm gnizations on his side was upset on the White House forced him to stitute the milk subsidy before Con-ss had a chance to pass on it. This is for offsetting increased costs of d by making subsidy payments of to 50¢ per cwt. to whole milk aducers.

The subsidy alone won't solve the k shortage problem. Feed shortage the real trouble, and officials haven't thit on a practical plan of distribut-ghe short supplies (page 14). Worry that the feed will go into the more ofitable hogs and poultry than into

ity cows.

st wa

Range

ckly i

traine

nstin

uctor

nce b

t tead

wleds

ever

andin

ainer

child

Survey the Survey

Appointment of a joint Army-Navy uction Survey Committee won't WPB's quiet but determined camin to force the services to scale down necessarily ambitious programs.

The new committee, appointed by cloint Chiefs of Staff on orders from sident Roosevelt, is supposed to review procurement programs and recommend changes to bring them in line with battle experience-which, to civilians, means to cut them down.

Production officials think this is fine so far as it goes but doubt the ability of anyone to audit his own books. They suspect that a critical survey of procurement in the light of battle experience would result in sweeping cutbacks in many more lines than have been hit so far, release considerably more material for civilian supply.

Hitch is that the officials can't prove their suspicions because battles to date

haven't been full-scale.

Fixed-Fee Contracts Stay

Discussion of the propriety of costplus-fixed-fee contracts, revived by Bernard Baruch's condemnation of such contracts, won't get anywhere.

Sen. Homer Ferguson, a member of the Truman committee investigating the conduct of the war, has slapped in a prohibitory bill, but the Truman committee itself has consistently refrained from recommending legislative correctives for any abuses into which it probes. It gets quicker, more effective results by applying direct pressure to sore spots and, in this instance, is disposed to believe that the cure would be worse than the disease.

Contracts can't be made in a vacuum, and the Truman committee's conclusion is that, where foreknowledge of the work to be done and of its probable cost is not adequate, the "insurance charges" included in a fixed price contract are likely to be so high as to exceed any waste encountered in the cost-plusfixed-fee practice.

WPB Agrees

Labor hoarding is encouraged to some extent by cost-plus-fixed-fee contracting, in WPB's view. Since his fee is fixed, the contractor doesn't make a nickel more-or less-by putting idle men into his costs, but chances are that if he were selling at a fixed price he wouldn't cut his profit by keeping many men handy just in case he needed them.

However, WPB's conclusion is the same as the Truman committee's. Agency heads ask how it is possible to figure a close fixed-price contract on a plane that has 99 design changes rung on it before it leaves the assembly line.

WMC Wants Contract Power

War Manpower Commissioner Paul V. McNutt's worries about the manpower muddle were slightly eased this week by his belief that he had succeeded in putting a representative on the inter-

Contract Termination—Job for Congress

Comptroller General Lindsay C. Warren has thrown a monkey wrench into WPB's last hope of working out a uniform termination clause for government contracts. Procurement officers say now that it will be up to Congress to lay down a detailed policy specifying how and when contractors are to get termination settlements and what government departments are to handle them.

• Services Ruled Out-The Comptroller General contends that the armed services have no legal right to make settlements on terminated contracts. The General Accounting Office, he says, is the only agency with authority to handle claims against the government. Hence, it should review each termination settlement before any money is paid out to a contractor.

The whole argument hinges on the neat legal question of whether a contract continues in force after the services tell a manufacturer to stop making the product they ordered. The Army and Navy have authority to make payments under contracts. They have assumed that this gave them power to make ter-mination settlements. The General Accounting Office argues that, once the Army cancels an order, its contract is dead, and that what the manufacturer has then is not a contractual right but a claim for damages, which the Army has no authority to handle.

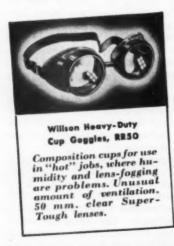
• Figures Lacking-Another complication is that nobody knows how much money the termination settlements will involve, or even how many contracts will be subject to termination. The Army has only a rough estimate of the number of prime contracts it has let, and it has almost no notion at all of the number and size of the subcontracts that extend down through the various levels

Just what Congress can do to break the deadlock isn't clear yet.



Does a riveter, chipper, welder or chemical worker, busy at his job, care that in the manufacture of Willson protective lenses we discard tons and tons of glass every year? Perhaps he hasn't given it a thought, but Willson throws away glass which the worker's own eyes would say was perfect...the flaws of which only delicate scientific ma-chines can detect. Such rigid inspection may save that worker's eyes some day-and actually increases his efficiency every day.
All Willson protection is scientifi-

cally engineered. That is why so many Safety Directors and Pur-chasing Agents specify "Willson or equivalent" for all kinds of head, eyeand lung protective equipment. For 73 years Willson has set the standard.





WASHINGTON BULLETIN (Continued)

agency Procurement Policy Board which rules on contract placement. He regards this as a big step toward straightening out his troubles, because it gives WMC a chance to clamp down on letting contracts in labor shortage areas.

However, neither WPB nor Procurement Policy officials would confirm that WMC has been given a seat on the

More Critical Areas

WPB admits that placement of contracts without regard to the local labor supply has been responsible for a large part of the manpower tangle. One of the first jobs of the "little WPBs" page 24) is to see to it that the procurement agencies look at manpower before they leap with orders.

Meanwhile, WMC has increased its list of critical labor shortage areas from

59 to 71.

Price-Profit Policy

A clear-cut declaration of OPA's policy on prices is in the works. Chester Bowles, the agency's general manager, intends to go on the record within the next few weeks. The declaration should settle such questions as how much consideration OPA will give to profits when adjusting an industry's ceilings.

Profits again became a hot issue when word leaked out that producers of vitamin products would be forced to slash prices. OPA officials have been citing the industry's favorable profits status as proof that they could stand it (BW-

Sep.18'43,p92).

It's Bowles' Show

Rumors that Prentiss M. Brown will resign as Price Administrator are being revived but it doesn't make much difference now. Bowles is running the show. Brown can quit anytime now without being vulnerable to the charge that he left Bowles holding the bag.

Stretching Shoe Leather

Indefinite extension of shoe ration stamp No. 18 hasn't been granted just to avert a last-minute buying rush by providing an overlap between stamps, but to stretch dwindling supplies of sole leather a little further. Next stamp to be validated, the first airplane stamp in Ration Book III (OPA has nicknamed it "walking with wings"), may have to last six months or longer.

WPB is pushing production of plastic and synthetic rubber soles (BW-Aug.

21'43,p70), although there won't enough of these to ease the pinch leather much. Meanwhile, it is ning to give the repair trade a his share of what sole leather there is keep shoes on the hoof in good

HE II

ODUC

teel In

roducti

ngineer

Tectric Crude C

itumin

ADE

Miscella

Il Othe

Money i

Departm

CES (A

pot Co

domestic

inished

crap St

Copper Wheat (

Sugar (12 Cotton (

Wool T Rubber

ANCE

0 Stock dedium

High Gr. J. S. Bo

all Loa

ime C

NKINC

Demand

Total Lo

nmer

ecuritie J. S. Go Other So

xcess R

lotal Fe

BI

220

210

200 190

180

160

ness

Airlines Invited South

Civil Aeronautics Board is again viting applications for air route or cates from this country into the Ca bean, Mexico, and South America

The first call, one year ago, appare was instigated by the Army and later withdrawn upon objections by Navy. The idea then was to supplem the extreme shortage of surface of ping. This time, it's a good neigh

Presumably, if the "invited" | don't pay their way, they will be

sidized with high rates.

While thus proceeding with line Latin America, the Administration holding in abeyance all transocean plications pending determination of eign air policy-which seems to m the Western Hemisphere is not regan as "foreign."

Capital Gains (and Losses)

Machine Tool Division of WPE working on a plan for contract term tion under which tool manufactu would complete all orders in the w when they get notice of cancella and turn the tools over to a Defe Plant Corp. pool. This DPC would pay the manufacturer and the tools to the next contractor needs them.

Office of Civilian Requirements wondering whether-since postwar p ning affects the civilian econom shouldn't become a brood hen the manufacturers who want a little this, that, and the other to carry experiments angled to postwar. S WPB top officials admit that the m rial might be found but won't face charge of letting labor be diverted for war work-even if that means only spare time of a few engineers or lab tory men.

WPB now is proposing award Army-Navy "E" pennants to wh distillers for their outstanding job producing war alcohol and, incident to take the edge off their disappo ment that it will not permit them divert a small fraction of their out

for beverage use.

-Business We Washington But

IGURES OF THE WEEK

	& Latest Week	Preceding Week	Month Ago	6 Months Ago	Year Ago
E INDEX (see chart below)	*212.9	212.3	212.4	202.2	186.9
ODUCTION					
Reel Ingot Operations (% of capacity)	100.8	100.6	99.4	99.5	97.3
roduction of Automobiles and Trucks	21,490	†21.040	20,055	18,210	20,860
respecting Const. Awards (Eng. News-Rec. 4-week daily av. in thousands)	\$8,809	\$9,285	\$7,322	\$11,731	\$28,450
Power Output (million kilowatt-hours)	4,360	4,359	4,322	3,928	3,720
Coole Oil (daily average, 1.000 bbls.)	4,344	4,376	4,196	3,896	3,909
ituminous Coal (daily average, 1,000 tons)	2,017	†2,031	2,002	2,060	1,951
ADE					
fiscellaneous and L.C.L. Carloadings (daily average, 1,000 cars)	84	83	82	78	85
Other Carloadings (daily average, 1,000 cars)	67	67	67	50	6
Joney in Circulation (Wednesday series, millions)	\$18,714	\$18,773	\$18,303	\$16,065	\$13,519
Department Store Sales (change from same week of preceding year)	+17%	+10%	+15%	-2%	+5%
usiness Failures (Dun & Bradstreet, number)	33	30	45	94	149
CES (Average for the week)					
oot Commodity Index (Moody's, Dec. 31, 1931 = 100)	248.2	247.8	246.8	248.8	235.0
adustrial Raw Materials (U. S. Bureau of Labor Statistics, Aug., 1939 = 100).	160.6	160.6	160.5	159.9	155.0
omestic Farm Products (U. S. Bureau of Labor Statistics, Aug., 1939 = 100).	217.4	216.9	215.2	208.8	186.
inished Steel Composite (Steel, ton)	\$56.73	\$56.73	\$56.73	\$56.73	\$56.7
cup Steel Composite (Iron Age, ton)	\$19.17	\$19.17	\$19.17	\$19.17	\$19.17
Copper (electrolytic, Connecticut Valley, lb.)	12.000€	12.000€	12.000€	12.000€	12.000
Wheat (No. 2, hard winter, Kansas City, bu.)	\$1.47	\$1.47	\$1.41	\$1.39	\$1.2
ugar (raw, delivered New York, lb.)	3.74	3.74¢	3.74¢	3.74¢	3.74
Otton (middling, ten designated markets, lb.)	20.49¢ \$1.365	20.48¢ \$1.365	- 20.53¢ \$1.370	21.31¢ \$1.303	. 18.74d
Wool Tops (New York, lb.)	22.50e	22.50¢	22.50e	22.50¢	22.50
	22,700	22.70¢	22.700	22.700	22.70
ANCE	05.5	0//	00.0	00.0	
(Stocks, Price Index (Standard & Poor's Corp.)	95.7 3.83%	96.6 3.83%	93.2 3.82%	90.7 3.99%	70.5
Bish Grade Corporate Bond Yield (30 Aaa issues, Moody's)	2.70%	2.70%	2.69%	2.76%	4.26% 2.80%
I. S. Bond Yield (average of all taxable issues due or callable after twelve years)	2.30%	2.30%	2.28%	2.33%	2.34%
Loans Renewal Rate, N. Y. Stock Exchange (daily average)	1.00%	1.00%	1.00%	1.00%	1.00%
time Commercial Paper, 4-to-6 months, N. Y. City (prevailing rate)	3-3%	1-3%	1-1%	3-1%	3-1%
NKING (Millions of dollars)					
emand Deposits Adjusted, reporting member banks	31,624	32,871	35,145	32,128	27,807
otal Loans and Investments, reporting member banks	50,124	49,393	46,719	42,004	35,349
ommercial and Agricultural Loans, reporting member banks	6,132	15,992	5,739	5,975	6,576
conties Loans, reporting member banks	2,558	12,319	1,418	930	884
S. Gov't and Gov't Guaranteed Obligations Held, reporting member banks.	35,947	35,584	34,209	29,289	21,488
ther Securities Held, reporting member banks	2,952	2,953	2,902	3,222	3,539
ness Reserves, all member banks (Wednesday series)	1,890	2,050	1,106	1,632	2,034
otal Federal Reserve Credit Outstanding (Wednesday series)	9,717	10,315	9,137	6,280	3,581

diminary, week ended September 25th.

eling fixed by government.

Won' pinel it is e a bi good

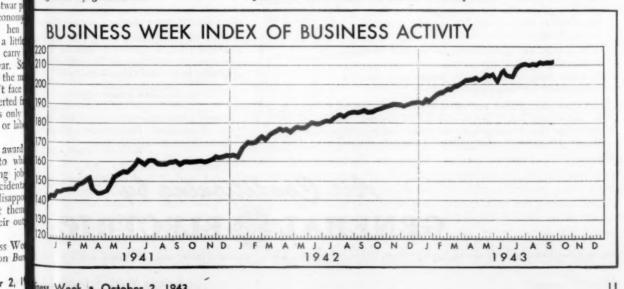
again ute on nerica. apparer and ons by

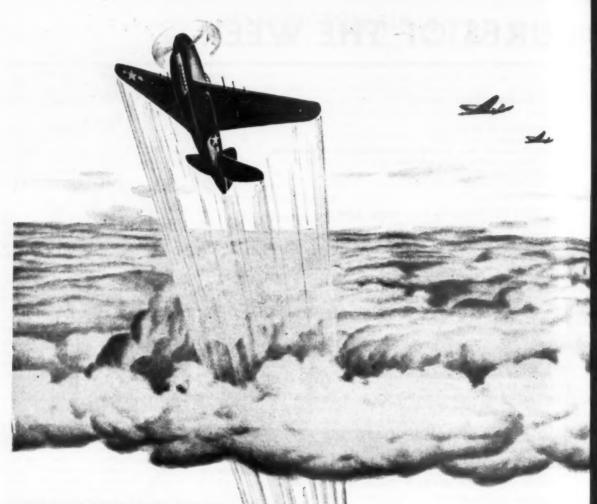
upplen neig ted" ill be th line stration socean ion of to m t regan

es WPE t term ufactu the we ncellat a Defe PC and actor

ement

§ Date for "Latest Week" on each series on request.





NOTHING TO IT, EH?

Modern war planes can climb a mile a minute. In very few minutes a fast climber can be up in the sub-stratosphere. But...

Temperature takes a nose dive as the plane soars higher. At 20,000 feet the temperature is well below zero. Apparently at about 35,000 it becomes fixed . . . at 70 degrees below zero in the temperate zone. Over the equator, stratosphere temperature drops as low as 100 degrees below zero.

Both pilot and plane encounter troubles in the bitter-cold, rarefied air of the sub-stratosphere. Moisture freezes, oil congeals, engines gasp and die unless aided by turbo-superchargers.

Nevertheless, planes and pilots are learning to fight at higher and higher levels—thanks to research conducted on the ground in test chambers which reproduce the conditions of the stratosphere. Accurately controlled air conditioning and refrigeration...plus controlled pressure...make these tests possible.

Follo 15-mon ast tw fairly the man but ane is they

Quest This

for 194 Russian most of

But bed

and of mised r itively.

For,

and rea

-probal

onsens

Hitler i

How m

from wi

will ser

the All

ranean

now th

mits an

with w

e shift

Nazi in

final cro

Goals

lso ma

he goa ion as and st

this we

Business

This is one of the many interesting and important ways in which air conditioning is contributing to our war effort. To do the tasks of war time, General Electric has developed dependable air conditioning and industrial refrigeration equipment...equipment that is more flexible, more compact, more efficient.

After the war, lessons learned in wartime production will be applied to making better peacetime air conditioning. This will be made available to all from General Electric.

T BUY WAR BONDS

General Electric Company, Air Conditioning and Commercial Refrigeration Divisions, Section 4311, Bloomfield, N. J.

Air Conditioning by GENERAL BELECTRIC

Hear the General Electric Radio Programs: The "HOUR OF CHARM," Sunday 10 P. M., EWT, NBC..."THE WORLD TODAY" News, Every Weekday 6:45 P. M., EWT,

THE OUTLOOK

"R" Day Is Drawing Nearer

Reconversion never was expected in 1943, of course, but now is the time to figure just when it will come and what it will entail—even while meeting new arms schedules.

Following an almost uninterrupted 5-month rise, stock prices during the last two months have been holding on fairly even keel. This suggests that he market has taken pause to sketch at anew the probable course of events they will affect future earnings—and hat the market has not yet come to a lecisive conclusion.

Questions to Be Answered

This week's developments reinforced the tendency to pause for a look ahead. At home, high officials outlined the sope of the war production program for 1944 (page 15). In the war, the Russians drew up at the Dnepr along most of the front, and the Allies completed the conquest of most of southern light.

By themselves, these events raised to questions that were not being asked in months ago: When will reconversion begin? When will Germany be defeated? And what will happen then? But because we are six months further along on the schedules of production and of war, those questions are now miscal more forcefully and more definition.

For, as Business Week has affirmed and reaffirmed, that probable schedule probable in that it was the general consensus—envisioned no victory over Hitler in 1943, and no reconversion in 1943 But 1944 may well be different. How much different we may soon see from whether the Germans defend the Dnepr line or whether the Russians will send them reeling back; whether the Allies will broaden their Meditermean strategy into a Balkan invasion, now that capture of Foggia fields permits an air cover for it; and whether, with winter approaching, reliance will le shifted from strategic bombing of Nazi industry to the striking of that final cross-Channel blow from Britain.

Goals Must Be Met

rolled

and ing is

tasks eloped

strial

nat is

cient.

rtime

better

made

oning

EWT, 0

r 2,

These events will not only define more clearly the date of victory, but also may affect the outlook even before. At this time, we must accept the goals for forthcoming war production as the minimum of military needs—and strive to meet them. But it cannot be overlooked that the President this week has set up under the Joint

Chiefs of Staff a production committee to recommend "changes in procurement programs in the light of war developments." This is the second such move to "see that the waste, unavoidably present in war, is kept to a minimum." And clearly, possibilities of "waste" mount as war prospects unprove (BW-Aug.7'43,p108).

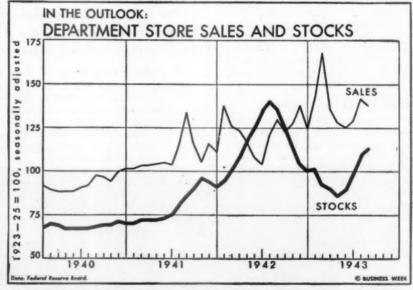
Uncertainty about the outlook after a German defeat hinges on two factors: (1) the level to which we demobilize our war effort with Japan still to be licked, and (2) the extent of the relief and rehabilitation we provide for Europe. And these must be considered against the background of the economy we have erected to fight this total war. As we attempt to shift our resources, we may encounter many temporary bottlenecks in facilities, materials, or manpower.

Take the auto industry, for instance. Its production of munitions is now running at a rate of more than \$9,000,000,000 a year. By now, half this output is going into aircraft, engines, and parts, and a small volume of ship motors and similar equipment. One-fourth is devoted to tanks, guns, and ammunition, and the remainder to trucks and other military vehicles.

Some Waste Inevitable

Suppose, as now seems not unlikely, that after defeating Germany we maintain emphasis on production of aircraft and marine equipment to fight Japan, and of trucks, trailers, and similar vehicles for both domestic and foreign transport. This would keep threefourths of the industry's plant and labor occupied. Suppose also that we sharply reduce output of equipment and ammunition for the ground forces-the bulk of which is produced outside the auto industry. This cutback would free the vast quantities of steel used in this ordnance but would release only up to one-fourth of the auto plant and labornot nearly enough to fabricate into passenger cars the released materials.

This is but one hypothetical problem



Department store sales—like other sales—have held up better than expected. Now, surprisingly, inventories have risen for three months. At once, this suggests rising civilian supplies—though civilians seem still to be getting less rayon, leather, cotton, and woolen goods. However, one reason for the rise in dollar volume is higher prices, including upgrading from low-

to high-price lines. Another is the substitution of inferior materials in making products which now-affluent consumers will buy anyway. A possible third is that this season's production of many soft goods scheduled tor fall retailing came earlier than usual—due to unprecedented demand—forcing stores to inventory merchandise which they soon plan to sell.



GRAND ILLUSION

Kansas City's crowded stockyards are typical of the cattle pens throughout the country this week. But steakhungry gourmets will find them somewhat of an optical illusion. For although Monday saw the biggest runs to the dozen principal markets in 17 years—156,900 head—the cattle are only a reasonable facsimile of the prewar stuff. Most of them are grass-fed lightweights that haven't been fattened on Corn Belt feed lots.

of the many that may actually arise. So long as there continue to be sufficient demands for our total output—whether for munitions, consumer goods, or industrial equipment—the production set up may require drastic revision of contracts, materials allotments, and labor supplies in order to avoid waste of resources. Even so, some such waste will be unavoidable for a time.

Significant Discrepancies

The Dept. of Commerce now estimates that consumer expenditures on goods and services will come to \$90,000,000,000 this year—some \$15,000,000,000 more than had been forecast at the beginning of the year. This contrasts with the failure to meet 1943 munitions "schedules" by some \$10,000,000,000, which was pointed out last week. And the two discrepancies more than faintly suggest a connection.

Both war production and consumer expenditures failed to meet forecasts partly because of inevitable errors in predicting the nation's capacity. Also, the value of goods and services was in part inflated by price increases, disappearance of low-price lines, and similar nonphysical factors. But it seems likely that the design changes, cutbacks, and components bottlenecks which retarded arms output freed some materials and manpower which were used to augment civilian supply—and that war production suffered in part for lack of manpower and materials which we failed to divert efficiently from the civilian economy.

Feed Crisis Nears

No matter what decision WFA makes on livestock, there will be shortages in meat, eggs, or milk before very long.

American farmers responded to the 1943 official livestock and poultry goals with such gusto that there just isn't enough feed to fill the beasts' and birds' hungry mouths. Or, at least, growers who have corn in their cribs won't sell it to cattle feeders and poultrymen at the \$1.07 ceiling.

• Smaller Total Supply—Profuse statistics bearing on the general situation boil down to a simple shortage. Supply of feed per animal for the crop year starting Oct. 1, 1943, will be down—perhaps 15%—from the preceding year of record crops, or 10% from the 1937–41 average.

The worst of it is that no amount of paper work on the Potomac can increase the total feed supply. No matter how Washington approaches it, the solution must be production of less meat, milk,

• A Pinch Somewhere—Consumers are bound to feel the effect on their diet. Whether dairymen or poultrymen or livestock raisers get the feed, other millions of farmers will be left out—and they'll have a patriotic excuse to complain about their out-of-pocket loss. Politically, it's no fun for the planners to decide whose little pig goes to market at an unprofitable price.

Pressing for quick action on a milk subsidy, War Food Administrator Marvin Jones has tackled the most immediately urgent problem. He must augment dairy feed supplies, or consumers in many a major center must this month go without fluid milk.

• Plenty of Pork, But—Other phases require just as prompt action to ward off explosive consequences. Meat, for instance. Last spring's bumper crop, now maturing into butcher hogs, assures a great plenty of pork for next year's military-civilian and lend-lease needs.

Beef and lamb are a sadder story. Left to the simple devices of nature, most cattle and sheep would necessarily move to slaughter by the time the pastures dry off in late summer. Feed-lot operators fatten range animals for market and, meanwhile, hold them back for more gradual marketing throughout the nongrazing seasons.

• Ewes Go to Slaughter—Lamb feeders are quitting in droves, though excellent mutton is plentiful because sheepmen are selling off their breeding ewes. Cattle feeders should right now be stocking their lots with thin stuff, for range cattle normally move into the Corn Belt over a period of three months, starting in mid-September.

Statistics on feeder and stocker cattle passing through the yards at Chicago, Kansas City, St. Paul, and Omaha tell their own story. For the week of Sept. 17, the decline in the number of cattle sold for feeding rather than for slaughter declined 13% compared with last year; for the fortnight, down 3%; for all of July and August, down 17%.

• Price Problems—OPA price ceilings on beef fail to provide the 2¢-to-2½ margin between grazers and fed cattle which the feeder needs to outbid packers for grass-fattened range stuff. Also, feeders can't find farmers who have any corn they will sell at the ceiling price of \$1.07, because the same corn can be fed to hogs and marketed as pork at about \$1.50 a bu.

Last week, the feeders of eastern Iowa, biggest midwestern feeding district, requested the War Food Administration to remove four barriers that now prevent them from stocking up their lots. Their program asks the government to (1) officially state desired beef production by type, volume, degree of finish; (2) cease threatening ceilings and rollbacks on live animals; (3) revise ceiling prices on grain-fed beef to reflect feeding costs; and (4) revise hide ceiling upward.

• Two Expedients—WFA officials cannot budge OPA from its corn ceiling, hence cannot budge corn out of Corn Belt cribs to supply deficiency areas like the dairy and poultry states of the Northeast. Next best expedient would

com at resell to he regu ity Cre \$100,000 00,000,0 past 20 out o ie com t but part of 27'43,p 2.44 is a (oilmea But larger o 2.43 in at the sa w abou has wo ry, a se partie bution meals.

buy a

Guiding animals their p be sustant in their p be sustant in the su

New 1

out mi

least wil

stringy

uble un

sis alo

ne pasti

p laboured W

talks i

buy a hundred million bushels or com at, say, 10¢ above the ceiling resell to dairymen and poultrymen he regulation OPA figure. Comity Credit Corp. already has used \$100,000,000 by below-cost selling 00,000,000 bu. of wheat for feed in past 20 months and is now prac-ly out of feed wheat.

IS to

ct at

milk

Marnedi-

nent

s in onth

s re-d off in-

now es a

mili-

Left

nost

3701

dry itors

and.

nore

1011-

ders

lent

nen

ittle

ing

ittle

Belt

gin

ttle

igo,

tell

ept.

ttle

iter

car;

of

ngs 21¢

ttle

ick-

lso,

disin-

red

ect

ng,

m

ike

he

ıld

43

he corn shortage is the basic ailt but protein supplements are a part of the feed problem (BW-2743,p15). Actual expectation for 344 is a record-breaking 11,600,000 (oilmeal equivalent) of high-protein But the prospective supply-due larger dairy and poultry flocksally will be about 8% smaller than 243 in relation to livestock, and at the same as the 1935-39 average.

low about Next March?—Washinghas worked out, with the feed inty, a set of regulations which suits parties while assuring equitable mbution of cottonseed and soybean meals. Feed rationing seems imhable unless the shortage becomes risis along about next March, just

pre pastures turn green.

Guiding principle of the crop goals animals and poultry next year is their present numbers exceed what be sustained on expectable feed sup-Carryovers, on which they have living, are now running out.

Dubious Consolation-Eventual oute of the present chaos is anybody's s. The livestock trade doubts that olution can emerge in time to preserious maladjustments in meat, and eggs. Meanwhile, the Corn farmer, with plenty of home-grown in in his granaries, will keep on feedhis hogs and any beef or dairy cattle has. He figures that, if New York New England should have to go out milk and eggs this winter, they ast will have a lot of stewing hens stringy cow beef.

War Miracle-1944 Output

U. S. will equal production of all allies and enemies combined, but tides of conflict will cause shifts-and painful ones; goals are about 20% over 1943, but not for all items.

War production is climbing again. It has been for some weeks, but officials were reluctant to admit it for fear "complacency" would result in another

But Washington has grown tired of its own pessimism, which took the line that no matter how good production is, it isn't up to "schedules." In WPB and the procurement agencies, there is no longer much disposition to challenge Under Secretary Robert P. Patterson as official gloom dispenser. (Pep sessions held by Patterson this week were designed to din the sour notes in the ears of production and labor executives.)

• Rise of 20% Planned-The mysterious schedules, whatever they may be, obviously lose validity in the face of current performance and confident estimates of future performance. War output is expected to push on to 1944 levels more than 20% higher, in dollar volume, than for 1943-about \$76,500,-000,000 against \$62,500,000,000, exclusive of construction.

Somewhere along the production line, U. S. output alone will come abreast of the war output of all our allies and enemies combined. This fact puts in a sudden new perspective our relationship to friends and foes alike.

• Many More Shifts-The production pattern will be very irregular from here on. There will be many more shifts from item to item. There will be many more cutbacks to disturb contractors' operations-and excite labor's protest of bad management in Washington-as

orders are manipulated in closer conformity to the variable needs on the battlefronts.

It must be reckoned as probable that, sometime during the year, Germany will fold, and the focus of the war effort will shift to Japan. That change will thrust an even greater load on the already overburdened Pacific Coast and on rail lines West. While construction of plant and handling facilities continues to taper off elsewhere, the need for warehouses, new bases, docks, and other structures on the Coast will mushroom. • Those Superbombers-Pushing the war into the Pacific will also force a top-to-bottom overhaul of the munitions program. In the air, the overbearing need will shift from short- and medium-range fighters and bombers to giant bombers that can change the map of Japan from island bases 2,000 miles

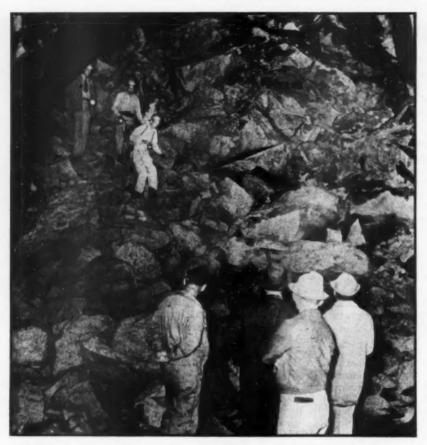
Although next year's planes will run one-third heavier, on the average, output will be, at a guess, 115,000, which compares with a probable 85,000 this year (although WPB still hopes to make it 90,000). The chances are that plane output will reach its ceiling about the first of the year.

 More and Better Models—In Donald Nelson's report on August production, it is admitted for the first time that plane production has now reached a point where we can afford to take slight temporary losses in production to get more effective models. The past three or four months have seen changes so extensive, even in much-beloved mod-





labor and industrial leaders red Washington's Pentagon labyth this week for war production talks by Army and WPB officials. Tom Girdler, chairman of Consolidated Vultee Aircraft; Victor Emanuel, president of Aviation Corp.; Harvey Firestone, Jr., president of Firestone Tire; and Glenn Martin, president of Glenn Martin Co. (left to right) were among those who heard the call for "more in '44."



PLUGGED BY FIRE

Strange as it seems, a brush fire is to blame for a cave-in far underground in one of the nation's most vital tunnels. It's the Denver & Salt Lake Railroad's Moffat Tunnel in Colorado. Spreading along ties and timbers, flames raced into the tunnel, weakening roof and walls with terrific heat. Inspecting the costly plug is John R. Austin (upper left), famed tunnel driver who prescribed mucking machines for clearing it. War traffic is being detoured 175 miles over the Denver & Rio Grande tracks via Pueblo.

els, that it is doubtful whether the Germans will recognize them.

August plane output pulled up to 7,600 (of which, incidentally, probably more than 5,000 were combat types). This is an increase of 3% over July in number, 7% in weight, and the highest total to date. The August output might have been 700 to 1,000 planes higher still save for the extensive design changes. Changes are coming along fine, however, and September plane output will show higher than Augustand, on a weight basis, five times last September.

• More Than Manpower—The public has been given the idea that the ruckus over the manpower squeeze on the Pacific Coast is the whole reason for the way plane production has failed to keep pace with the military's ambitious schedules. Procurement officials know, however, that constant design changes are of at least equal importance.

Nearsighted judgment in placing contracts in Pacific Coast plants is at the root of the manpower trouble; 50% of aircraft requirements have been ordered from Coast plants in spite of the shipyards, which are taking twice as much labor as the plane plants. In many cases, however, circumstances have forced the choice, and the end is not yet. Example: To get quick expansion of plane and truck tire output, WPB will have to dump more capacity in Los Angeles (as well as Akron) simply because it can get more tires in three months, whereas it will take 18 months to start from the ground up in places of easier labor supply (page 18).

• Another Pinch Eases—Next to planes,

• Another Pinch Eases—Next to planes, the tightest spot in war production is ground signal equipment, but WPB officials are cheered by a sizable pickup in this complex line.

Raw materials—and that means prin-

cipally aluminum, magnesium, copper, and alloy steels—are running out of WPB's ears. Exception is carbon steel. Good indicator is that, in the last 60 days, not one plane plant has com-

plained to WPB of lack of maters. The same is true of aircraft englants, except in two plants which being extended. The comparant tight situation in carbon steel, big volume metal of all, is temporary a due to the enormous demand where piled up for the fourth quarter, is more furnace capacity coming in about the same time is expected to pup part of the load.

om this

ncrease

importa

ry, tan

and o

produc

ing m

of labo

Var ind ding, is at \$4,60

000,000

ith a sl

in pros

redictab

therwise

be very

year, a

heir figu

vilia

Equi

ilable

er-all su

WPB's

ts doesi distribu

of civi

l busir

draft o

B into a

the di

er merc

cally a

Over

discove

ely to s

wasl

ry nece

It m

ages—r

aby ca

gloves

the pr

shelve

Y is

is is w

ed, as 1

ncipal

nd the

ials is t

lesalers

d trou

bution

7). T

is jun

the ap

This

underv

destion

on fin

de it i

tiness \

• Manpower Determinant—Many manufacturer, however, whose war by ness will shrink or evaporate entirely 1944, will be disappointed if he had to get materials for experimental decopment work on peacetime products, least, that's the way it looks now.

Most manufacturers fail to real that WPB regards labor supply as than materials as the key to this s tion. WPB sees a chance here to its control over materials to divert la whose war jobs in one spot are dry up to spots where demand is urgent, Durable Goods Problem-Ca goods requirements for supplying 11,000,000-man Army and Navy are pretty well in hand; not entire but enough so that in 1944 WPB make more generous provision for placement needed to hold the civi economy together in transportati communication, power, and so on,

In durable consumer goods, the dook isn't so bright. WPB says neight that there won't be any automobuntil Germany is licked. In other dable lines, some goods will be say wiched in, but in amounts that will be care of only acute needs.

Production of soft goods can be pected to increase somewhat, but worst is still to come because cushion furnished by inventories rapidly disappearing.

building is approaching its peak. I relatively small increase in "constition-in-place" during the first six mon of this year foretold a leveling out the ship completion trend. A qu take of the high spots in naval produced the property of the ship completion trend. A quality to make the high spots in naval produced the high spots in billions in about like this:

									1944	
Battleships									\$1.3	
Destroyers		×						*	1.09	
Submarines				*				*		
Antisubs .									3.6	
Transports					 		 		.4	

Planes for both Army and Navy arms, totaling \$12,000,000,000 year, probably will reach about \$000,000,000. Building of merch ships will run 21,000,000 tons, ab 2,000,000 tons better than this with production shifting progress from Liberties into the faster Vidand C-2 models; more tankers are calfor, too.

 Cutbacks and Shifts—The over program for ground troops will d

om this year's level. As the shootincreases, ammunition will become important item. Almost enough ery, tanks, antiaircraft guns, small and combat vehicles have already produced. Cutbacks will be deep, ing many headaches in redistribu-

ar industry construction, already ding, is expected to drop from t \$4,600,000,000 this year to \$2,-000,000 next year.

match

t one

which

parata

l, big

rary:

id wh

rter,

ng in

Many

war h

ntire

he h

tal de

ducts.

W.

o rei

ly rat

his s

re to

ert la

re dry

rgent.

lying

avy n entin

n for

civil

ortati

the o

omob

ther d

be s

will t

n be

but

nise

tories

val

ak.

constr

mon

g out

proc

Navy

00

ut

nerch s, ab

nis v

ressi

Vict

OVC

2, 1

7th a shift in the whole theater of in prospect, but with the timing redictable, no calculations, official therwise, of 1944 war production be very solid. Besides, next year is year, and if the statisticians have often that, the extra day will throw heir figures out of joint.

vilian Funnel

Equitable distribution of ilable goods—rather than the r-all supply—emerges as crux he consumer problem.

WPB's Office of Civilian Requirets doesn't act soon to insure equita-distribution of the diminishing supof civilian goods, Congress may the play away from it. The Senate's business committee is readying draft of a bill which would push Binto adopting widespread controls the distribution of all scarce coner merchandise (which today means tically all commodities)

Over-All Answer-OCR already discovered that it isn't enough by to see that more hairpins, radio s, wash tubs, garbage cans, and w necessities are allocated to civil-It must also cope with specific ages-no razor blades in Dallas, beby carriages in Los Angeles, no gloves in Leadville, Colo. There's the problem of what to do about iler X who is struggling along with shelves and empty bins, while Rer Y is apparently well supplied. is is what bothers Congress, con-ed, as usual, with the little fellow's

ncipal object of a scheduled swing nd the country of a group of OCK ials is to find out from retailers and lesalers at the grass roots just how th trouble wartime dislocations in ibution are causing (BW-Sep.25). The importance OCR attaches is junket is indicated by the fact the agency's boss, Arthur Whitewill go along for at least part of the This sortie into the field should underway Oct. 10.

bestion of Authority-OCR is counton findings of this road tour to t it in framing distribution controls. But the wheels may not grind fast enough for impatient congressmen. Also, there has been some question as to whether WPB is sufficiently empowered, under the Second War Powers Act, to take a firm grasp on distribution of nonrationed commodities. Congress is anxious to remove any such doubts.

Whoever jumps first, there's pretty general agreement that present devices aren't enough to insure that everybody gets his share of what (theoretically, at least) is an adequate supply of the basic

civilian necessities.

• Factors Involved-Fundamental trouble with the present distribution setup obviously is an undersupply of goods and an oversupply of cash to spend for them. But other wartime upsets have vastly complicated the basic trouble:

Differential Conversion - The manufacturer who supplies one wholesaler may have converted to war work, while the manufacturer who supplies a rival wholesaler with a similar line of goods may still be in civilian

Shifts in Population—By and large, the distribution system simply has not been able to keep up with a rapidly shifting war-time population. The goods don't follow the war workers-or, at best, they lag behind them. Contrariwise, some communities, whose citizenry has been drained off by the war, are plentifully supplied.

Isolated Areas—With the shortage of goods and with deliveries restricted, manufacturers and wholesalers have tended to drop customers in isolated locations that are difficult and expensive to service.

• Reports from the Field-Evidence of the troubles manufacturers and wholesalers are having in doling out their diminishing supplies is found in a Dept. of Commerce survey of the distribution of scarce goods. Published this week, the survey covers 69 manufacturers and 205 wholesalers in the grocery, drug, confectionery and tobacco, dry goods and apparel, hardware, and furniture fields. Of those surveyed, only four manufacturers and 28 wholesalers claimed no serious problem in allocating goods.

Majority of the firms covered have been so seriously troubled by the problem of making too little go too far that they have worked out definite policies (which, in some cases, have evolved into systems approximating the complexities of consumer rationing). Favorite method of allocation has been to supply customers with a fixed percentage of their purchases in a base period. A variation of this is to apportion goods to salesmen on the basis of their past sales records.

• No Adequate System-Although the survey indicates that most suppliers are

CARGO SWALLOWER

Censorship now permits pictures of one of the Navy's ugliest but most dependable craft in several invasions to date. Designated the LST (Landing Ship-Tank), the big carrier has huge swinging doors at the bow to permit rapid unloading directly from ship to shore (below). Head-on, it resembles a tunnel (right) into which armored equipment is driven to cargo berths.





groping for a fair system of stretching their wares, it also shows that almost none of them have tried to cope with new customers, boom areas, and buyers cut off from other resources.

Thus far, WPB and OPA dictums on distribution have been couched in general terms. Last February, the two agencies issued a joint statement of policy urging suppliers to adopt fair practices in allocating scarce goods. Distribution clauses attached to conservation and limitation orders have been similarly vague. • Responsibility Settled-It wasn't until WPB's Retail & Wholesale Trade Divison was transferred to OCR early last summer that any one agency was clearly saddled with the responsibility for solving the distribution muddle. Under the general administrative order implementing this transfer, OCR was charged with "assuring a fair and equitable flow of consumer goods and related products through the distributive system." Hence, it's now assumed that distribution is OCR's baby.

So far, nobody has thought up an allocation system that won't make distributors cry "uncle" when the paper work starts snowing. Some officials are talking up a variation of the Canadian system. It would work something like this: Manufacturers and distributors would be told to supply their regular customers on a quota basis, at the same time reserving a percentage of their goods (say, 10%) in a separate pool. This pool would be earmarked for hardship cases by whatever division of OCR was designated to handle appeals.

Tires to Ease Up

Authorized expansion of existing plants, plus reconversion of others, will help to solve the crisis in civilian tires.

The rubber industry has been given the go-ahead by WPB and Rubber Director Bradley Dewey to expand its tire fabricating facilities as a means of solving the civilian tire crisis.

• A \$25,000,000 Rebuke—The authorized expansion of \$70,000,000 represents something of a rebuke to the tire makers, for it's \$25,000,000 less than they had urged (BW—Sep.4'43,p18) and confines the program with minor exceptions to existing manufacturing centers (Akron and Los Angeles will get the biggest shares). That limitation is in line with the Administration's belief that present tire-making facilities are not being used to capacity and that a better job must be done before the tire companies will be permitted to erect new plants.

That was the blunt ultimatum in William Jeffers' parting message to the industry just before he turned over the reins to Col. Dewey. According to Jeffers, there's a lag of fully 25% in civilian tire output which could be corrected with better labor-management

cooperation in the industry.

• Good Influence—And Jeffers' terse comments already are proving a whole-

some influence in the trade. Septemble civilian tire output will top first est mates, trade insiders predict, and sever companies have announced the organization of labor-management campaign aimed at reducing absenteeism, imposing materials scheduling, and increase the number of tires rolling off production lines.

cket, n

ith no ajor co

an \$3,

inery

ogram 00 wil

her m

Defen

e indi

ission

rment bber

as cutto perator ounder

Anoth

y is t

nt oth

ent.

ance I

lleghe

re plan

uch re

Uр

et pro

var m

owe

Three

peculat eiled s

ropulsi raft:

(1) I eek, I

oned a sed by io from plosiv (2) A

tes it

oticed inizati ad be

ith m

ng th

Actually, the trade feels that its a pansion arguments will result in the authorized outlay's being increased late if for no other reason than that the indistribution picture has changed, justifying the erection of manufacturing facilities in new areas.

• Old Story to the Union—Meanwhile the limitation in the expansion progras represents a victory for the United Rulber Workers (C.I.O.) which viewed the erection of new plants as a wartim version of the old decentralization store of the past two decades.

Meeting at Toronto, Ont., last wee in annual convention, 315 U.R.W. delegates representing 160,000 rubbs workers reiterated their opposition further decentralization while pledgm the cooperation of their local unions to obtain maximum production from existing facilities.

• The Big Question—Whether such of operation is forthcoming is the bifuguestion in the industry, for part of the "lag" noted by Jeffers can be traced industry spokesmen claim, to limit placed on production by the union if the interests of maintaining piece-rate wage levels. The limits on production the Akron area are believed the maps reason for plans announced by General Tire & Rubber Co., fifth largest firm if the trade, for the erection of a tire plan in the Southwest.

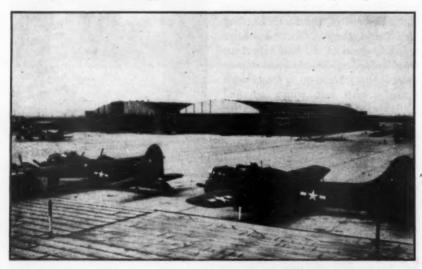
General's plans, which have been a proved by WPB, are based on the read availability of raw materials—butadient carbon black, sulphur, and cotton—it that area. The firm's argument is that the output per man at Akron has been cut from 60 to 47 tires per day.

cut from 60 to 47 tires per day.

• More Akron Tires?—For Akron, the expansion will mean an expenditure of a minimum of \$8,000,000 and "possibly a lot more," according to Dewer The expenditure in Akron, which for merly accounted for about 40% of the nation's tire production, will mean the some nontire rubber war contracts maken elsewhere so that the rubbe capital's critically short labor force cause its skill for producing as many appossible of the 30,000,000 civilian time and 20,000,000 truck, bus, and combined the state of the sta

and 20,000,000 truck, bus, and comba casings required next year.

Certainly a prime reason for WPB decision to expand existing facilities that such an enlargement will result is a greater volume of tires per dollar that would be realized by erecting not plants. That's why Akron observe that the city ultimate may handle up to 50% of the in arch,



CONCRETE CENTER

Ninety acres of concrete provide a vast worktable on which to revamp and outfit B-17 bombers at the Army's new \$5,000,000 modification center at Denver's municipal airport. To begin operations next month under Continental Air Lines, the plant will be able to handle seven times as many bombers as are now being modified by Continental in two National Guard hangars, both to be retained as parts of the new center. In addition, two new hangars (above), each 600x400 ft., will be able to house any known type of war plane. Denver hopes to acquire the new facilities after the war.

ket, when the expansions are coupled th new facilities which the city's ajor companies have put up this year. lajor companies have put up this year. coodyear, for example, has spent more an \$3,000,000 for equipment and mainery this year, and under the new logram, another \$500,000 to \$1,000,00 will go for Banbury mixers and her milling equipment used in proc-sing the rubber.

Septemb first est

nd sever he orga ampaign i, impro increasin

at its endt in the asced late in the time

iewed th

U.R.W 0 rubbe

sition f

pledgm

unions t om exis

union

piece-ra

oductio

Genen

t firm

tire plan

he rea

rtadien

otton—i it is tha

cilities

Deferments Studied-Still unsolved is e industry's manpower shortage. At Vashington, the War Manpower Comthe the training is studying plans for draft de-d, justify ment for eight to ten categories of ing facily between the categories of the c is cutters, calender, mill, and Banbury perators, supervisors, rubber com-ited Rul Another means of relief to the indus-ic the reconversion back to tire

y is the reconversion back to tire anufacture of facilities now spewing at other rubber products, or armaent. Two already have been anounced: The Eau Claire (Wis.) Ordbunced: The Eau Claire (Wis.) Ord-ince Plant, formerly the Gillette tire lant of U. S. Rubber, will cease turn-ing out small ammunition, as will the illegheny Ordnance Plant of Cumber-ind, Md., formerly a Kelly-Springfield ire plant, a Goodyear subsidiary. More inch reconversions are in the works.

the bi art of the traced to limit Jp with Rockets

Trend of events indicates et propulsion, already used in var missiles, may be closer as ower for airplanes.

Three recent events have caused new eculation about the progress of deeply siled scientific research in rockets, jet opulsion, and remotely controlled air-

otton-i it is that has bee (l) In his Commons speech last eek, Prime Minister Churchill menoned a "sort of rocket-assisted glider" ron, the sed by the Germans, controlled by ra-diture to from a mother-plane and carrying

diture to de d'po plosives na d'pour plosives na d'pour (2) Appearance (2) Appearance (3) The very significant but little priced announcement that a new or mization, Aerojet Engineering Corp., and been formed in Pasadena, Calif., ith membership including such brillit researchers as Dr. Theodore (1) Theodore (2) Theodore (3) Theodore (4) Theodore (5) Theodore (6) Theodore (7) Theo these men have been busily engaged iet propulsion studies for many years.
Not for Space Travel—To understand ckets, they must first be divorced from observe to moon, and it must be realized that the time that the country by



PARTY FOR A MOTOR

Pratt & Whitney, which has been making the Wasp series of plane engines since 1925, knocked off last week for a brief production party at the East Hartford (Conn.) main plant. Guest of honor: the 100,000th Wasp motor. In addition to components machined at the main plant and five satellites, the engine contains 10,000 parts made by subcontractors.

the work of Dr. Robert H. Goddard of Clark University, Worcester, Mass., has been directed first toward the development of a new type of power source and only secondarily toward space travel. But reaction or jet engines must not be confused with missiles of various types remotely controlled by radio or other means. In the latter instance, the emphasis is placed on the means of control rather than the type of power plant.

The German equipment mentioned by Churchill was probably a radio controlled glider bomb, but it might have been almost anything else from an aerial torpedo to a full sized robot airplane. It is no secret that, many years before the war, Wright Field engineers were experimenting on a radio controlled plane, but the story of subsequent work on controlled missiles may be long in coming because such devices are inherently self destroying and not often captured by the enemy

• Power-per-Pound Radio-Rocket enthusiasts were stimulated in 1936 by a Smithsonian Institute report by Dr. Goddard showing that he had succeeded in constructing a 5-lb. rocket developing 1,030 jet hp., or 260 hp. per pound, and using liquid oxygen and gasoline as fuel. This amazing concentration of power fired the imagination of aircraft engine designers whose brilliant work had succeeded in reducing power plant weights from more than 12 lb. to about 1 lb. per hp.

Maximum speed in one of the rocket flights reported by Dr. Goddard was 700 m.p.h. and range about two miles. But this Goddard rocket was a long way from a practical aircraft power

plant. Somewhere between the concentrated rocket power pack and the conventional engine, there had to be a usable compromise, and engineers have been working toward that end ever since. Dozens of fuels have been tested, some liquid, some solid, and some gaseous-many too dangerous to carry around in an airplane.

Problems-Fuel container weight, plumbing weight, and safety have been major problems where high explosives have been tried. For these reasons, it is a safe bet that the first really practical rocket-powered plane will be a compromise and will use some fuel no more romantic than ordinary gasoline. Some avenues of experiment would indicate that fuel rationing in the next war might include certain inert gases which, when mixed in a combustion chamber, become a powerful explo-

Jet propulsion is attractive in military aircraft because it would eliminate most of the noise; there would be no propeller din and relatively little exhaust roar. Ability to generate great speed quickly has obvious advantages but entails its own handicaps. Both quick acceleration and very high maximum velocity would be hard on fliers and equipment.

• They're Fuel Eaters-Range is a difficult problem for jet engine designers. Because high power is developed in a very short time, fuel is consumed very rapidly. This inherent difficulty might also indicate that first successes would be compromises between the pure rocket principle and present types of power plants.

The Italians flew one form of com-



PREFAB ROAD-POSTWAR

At Darien, Conn., a 48-ft. section of prefabricated steel highway is undergoing tests for wearing qualities and postwar possibilities. Installed by New York's Irving Subway Grating Co., the experimental stretch employs the same principle as portable landing mats used by Army planes, the grating being laid in 2x12½-ft. panels, filled with sand, surfaced with road oil.

promise during the week preceding Pearl Harbor. A regular airplane engine and blower, built into a hollow section of the fuselage, acted as a supercharger for a combustion chamber which exhausted rearward in a high velocity jet to provide propulsive power. This design was reported to have flown, with two passengers, the 300 miles from Milan to Rome in 2½ hrs., with one stop, presumably for fuel (BW-Jan.3 '42,p41).

 Progress Recorded—The Caproni-Campini design, obviously lacking in range, was based on a principle discarded by our engineers several years earlier. Since then, much progress has been made in this and other directions.

Conservative technicians have felt that the first practical application of rocket power would be for assisted takeoff of overloaded airplanes with conventional engines, for momentary bursts of speed in the air, or for launching gliders. All of these have been tried. As the problems of fuel and range were licked, it was believed by the sounder minds that this intermediate development might evolve toward a plane completely powered by reaction engines. But, in the present international battle of brains, it is not impossible that the intermediate stage may be skipped.

• Widespread Impact—Some automo-

• Widespread Impact—Some automotive manufacturers and executives in other industries have given much thought to the impact on existing industry of a new type of highly concentrated power unit requiring no mechanical devices for the transmission of rotational power. Not only the makers of automotive and aircraft equipment, but also the producers of fuel would be affected. So would the makers of railway equipment and even ships.

A rocket-powered automobile was driven successfully on the straightaway in Germany by Fritz von Opel, as early as 1928, and four years later a rocket car capable of competing with other racing cars was on the track at Wichita, Kan. With 1-lb. rockets, a speed of 50 m.p.h. was attained in the race. When 2-lb. rockets were used, speed increased to 115 m.p.h. But these cars were impractical because of limited range, accelerations too high for bodily comfort, and the use of highly explosive fuels—hazardous to drivers and onlookers alike.

In 1929, von Opel made a two-mile flight in a plane with rockets attached beneath the wings. The flight ended in a fire.

• First Space Soarer—It is not generally known that the Germans conducted what was probably the first flight of a man-carrying rocket in great secrecy on the Baltic Island of Rugen Nov. 5, 1933. After the death of the original designer, in an earlier experiment, Otto Fischer was launched in the 24-ft. rocket, reported a maximum altitude of 32,000, and landed the machine with the aid of a parachute 10 minutes and 20 seconds later. Whether Fischer and his brother Bruno will go down in history as the

Wright brothers of astronautics remains to be seen.

Germany must be credited as birthplace of rocket development, Prof. Hermann Oberth, a brilliant tronomer, mathematician, and physic has written the classic book on the ject of rocket propulsion. It is not a ommended reading for anyone who difficulty in understanding Einstein Many man-years of extremely hazardo research have gone into the subject the huge Raketenpflugplatz near Berli • Other Foreign Efforts-French auth ity is inventor Robert Esnault-Pelter who will be remembered as having on to this country a decade ago with avowed intention of suing all aircr manufacturers for infringement of ents he claimed to possess on the plane control stick. Esnault-Pelte sacrified two of his fingers in red experimentations. At Leningrad, Pr Nikolas Rynin has contributed much this research. Societies aggregating abo 1,000 members in Europe formerly s ported this work, but the subject is recently received government supportion In this country, leaders include su

In this country, leaders include so scientists as Dr Goddard; Dr. von K man, world authority on aerodynamiand vorticity; Dr. Malina; G. Edwa Pendray of Westinghouse; Dr. E. Myers; and others.

Man has worked wonders with a wheel, and rotary motion will alway have an important place in mechanic But there always will be energy loss in converting rotary motion to translational motion. The time may be not at hand when some vehicles will be prepelled by a push instead of a twist.

Tri-State Controls

Pennsylvania, Delaware and New Jersey lumped to gether in administration of reg ulations over hiring and firing.

Mandatory control over the him and transfer of workers under the mamum provisions of the War Manpow Commission employment stabilization plan (BW-Aug.21'43,p14) has be established in the third regional are comprising Pennsylvania, New Jere and Delaware. Experience in this are is helping to guide other district officin drawing up their regulations in prearation for an Oct. 15 deadline are gives employers and employees in oth sections an idea of what to expect.

Optional Provisions—It is a basic plantography.

• Optional Provisions—It is a basic paincorporating certain mandatory WM regulations and allows the inclusion special optional provisions to apply specific areas within the district. Frat L. McNamee, director of the Philade phia office, explained the plan is base.

What's in a 7 - 2. Convoy.



d as nent, a illiant physi the s s not who Einste hazard ubject ar Berli h auth t-Pelter ing cor with t l airc the !

much much ing about the support of t

ll alwa echanic gy loss to tran

ols

awar

ed t

of rec

firing.

e hiri

he mi

lanpow

as bee

nal are

v Jerse

this an

in pro

in oth pect. asic play WM

usion

Philade is base Manufacturing for War

The manufacture of aircraft equipment for the Government and the manufacture of Burroughs faguring and accounting equipment for the Army, Navy, U. S. Government and the nation's many war activities, are the viral tasks assigned to Burroughs in the Victory Program.

BACK THE ATTACK!

As a noteworthy instance, 700,000 different items of equipment and supplies in varying quantities crammed the convoys that carried American armies to conquest in North Africa—250,000 different items of ordnance; 100,000 different Engineer Corps articles; 68,000 different items of medical supplies and drugs; 10,000 different items for the Signal Corps; 390 different articles of clothing.

Countless hours of planning and figuring, as these statistics suggest, are essential in establishing the types and quantities of items needed . . . amassing them at the assigned embarkation points . . . dividing them strategically among the ships, to minimize the danger of crippling loss of any one item.

Allied superiority in the science of supply is increasingly obvious day by day. To the vital figure work involved, Burroughs adding, calculating, accounting and statistical machines bring a speed and an accuracy indispensable to the magnitude of the undertaking.

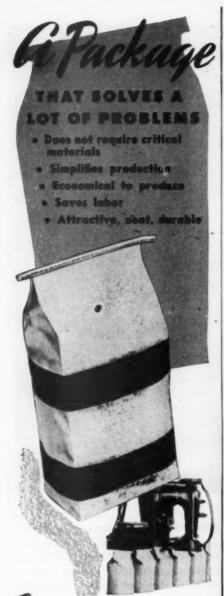
BURROUGHS ADDING MACHINE COMPANY, DETROIT, MICH.

Burroughs

GURING, ACCOUNTING AND STATISTICAL MACHINES

NATIONWIDE MAINTENANCE SERVICE . BU

BUSINESS MACHINE SUPPLIES



MALL paper bags, easily obtainable, closed after filling by Union Special 60000 C Sewing Heads are ideal packages for grocery staples, flour, sugar, powders, chemicals, dehydrated foods, dog food and a host of other products. The 60000 C machine automatically applies a tape to each side of the bag top, sews through tape and bag, clips the tape between bags and trims the bag top. Matches output of fastest filling equipment. A modest investment. Nothing else like it. Write for details. UNION SPECIAL MACHINE CO., 408 N. Franklin St., Chicago 10, Illinois.

Union Special
FILLED BAG CLOSERS

on the principle that new hiring from essential or locally needed activities will be permitted only if such hiring will aid in the prosecution of the war.

The major change seems to be the one providing that any worker who, in the preceding 60 days, was engaged in an essential or locally needed activity may be hired only upon presentation of a statement of availability from his most recent employer or from the U.S. Employment Service. Under the old system, the waiting period was 30 days, after which he could be hired without restriction.

• Approval Required—Other revisions include the need for USES consent before newcomers in a community may be hired. Similar approval is required for farm workers desiring to leave agricultural work for more than off-season, temporary periods; in addition, they require the approval of the War Food Administration. Employers may solicit only those workers who may be employed in accordance with the provisions of the stabilization plan and must continue to give advance notice of any layoff, regardless of the number of persons involved.

Responsibility for issuing statements of availability under specified conditions

rests with employers, and if they do the matter is referred to USES. I conditions include the discharge of worker, or other termination of his ployment by the employer; indel layoffs, or those exceeding seven undue hardship from continued comment or substandard wages. Both have the right to appeal.

• Special Measures—Seven of the

• Special Measures—Seven of the district offices under the jurisdiction the Philadelphia regional office has ercised their right to incorporate cial measures. Most stringent of apply to the Newark-Paterson where there is always a heavy inchange of employees with New City. It provides that workers in e tial or locally needed activities switch to the other area after the day waiting period only with U consent. The same applies to we entering the area for employment

Wilmington and Trenton ber mention of wage rates or total can in advertisements for workers. The also forbids solicitation for employ of workers in essential activities (den requires utilization of the loc bor supply before recruiting we outside its commuting area and only with USES permission.



MESSAGE FROM MOSCOW

The nation's Third War Loan whirled to a successful close this week in a flurry of high-pressure salesmanship—and not the least unusual appeal

was the message from Premier St read at a Washington rally by St Maj. Gen. Alexander Balaev. by photographic fluke, it might ap that Secretary Henry Morgenthan was more pained than pleased. uling

oving



Little Giants in Industry

These, too, are Baldwins. These industrial diesel-electrics bok small but they pack a lot of power—power enough to move long lines of cars in railroad yards and around industrial plants—move them with speed and economy.

Today, Baldwin diesels are helping to win a war by undling raw materials and finished products in shipyards, ordnance depots, mines and steel mills. Still others are unling supplies at the fighting fronts. To keep these goods noving is the most important job in the world today. This is only a part of the Baldwin story. Divisions and subsidiaries of this century-old locomotive builder are manufacturing a great variety of products. Army tanks, thip propellers, hydraulic presses, testing equipment and

diesel engines are but a few of the more important ones.

When victory comes, many of these same Baldwin products, and others that are new, will help to build a better peace-time world.



The Baldwin Locomotive Works, Philadelphia, Pennsylvania: Locomotive & Ordnance Division; Baldwin Southwark Division; Cramp Brass & Iron Foundries Division; Standard Steel Works Division; Baldwin De La Vergne Sales Corp.; The Whitcomb Locomotive Co.; The Pelton Water Wheel Co.; The Midvale Co.



nier St

by S

laev. ight ap enthau

ased.

per 2

Baldwin serves the Nation which the Railroads helped to build *



BASKET WEAVE CABLE ...

A shippord was "stumped" for a quantity of basket-weave electrical cable urgently needed to complete a group of tankers. Unless the cable could be delivered on the job within 24 hours, construction schedules would bog down, launching dates would not be met.

Feverish activity in the yard's purchasing department failed to turn up a single foot of cable. One of their calls went out to GRAYBAR. But even GRAYBAR's knowledge of cable manufacturers served only to verify that none of the missing "basket-weave" was to be found in stock.

Then Graybar ingenuity swung into action. A call to the GRAYBAR office in a neighboring city revealed that a shipyard there had received

a shipment of cable of the type required. Upon explanation of the urgent need, arrangements were made for this customer to "borrow" enough to meet the emergency. Before the one-day deadline was up, the cable reached the job, and construction proceeded according to plan.

This is but a sample of GRAYBAR flexibility in furnishing electrical materials to be installed in ships, planes and ordnance... production items as well as construction items. In your day-to-day purchases of electrical supplies, you'll find GRAYBAR equally successful at expediting delivery, at fitting in with your purchasing procedure, at saving buying time all down the line. WhynotcheckwithGRAYBARtoday?

Graybar

MOBILIZATION POINTS IN OVER 80 CITIES

EXECUTIVE OFFICES: GRAYBAR BLDG., NEW YORK 17, N. Y.

Bringing together more than 200 manufacturers . . . 20,000 customers

WPB Simplifies

pol.

0,000,0

gine of

The one

upluse

ets are

000,000

ap, for Washin

tter thi y will re stand

olete

st of

ed up

figure

their

Enginee Huded

mers, l

Her bit

er's W

t engin

to reficial or nit, start

There

cale

them,

r conti

e stock

m tool

Price F

er, by

ginally

remen

al of o

ing th

arket,

igh A

ne just

re sca

uish

Ŏn Ju

my A

y mea

The n

mplain

llowed Highe

ders "

irehou ling li the st

More speed and less pap as the field offices get adds powers. Small users are place on an annual basis.

For business men, the biggest addatage of the War Production Boan new decentralization plan is that it used down their dealings with Washn ton. It may not reduce paper work 25 to 40% as some WPB officials hopfully predict, but it will transfer mowork on small operations to the fed instead of routing almost everythe through headquarters as is done und the present setup.

The new program gives the 13 gional offices more authority in handli priority applications and requests permission to undertake industrial prects. It also enlarges their power of appeals under allocation and limitate orders. Specific changes stack up little.

• PD-1A Applications—On these calls priority assistance, the field offices will be complete authority immediately over approactions covering up to \$1,000 value. At 90 days they will handle applications up \$2,500. Formerly, \$500 was the limit field processing.

• Industrial Projects—Requests for pern sion to undertake an industrial project a for the necessary priority assistance will not be handled by the field offices if applicated do not run above \$10,000 value. After la 15, 1944, everything up to \$25,000 value will be taken care of in the field.

• PD-333 Applications—On these can gency applications for priorities to get contractor out of trouble that threatens a production, the field offices will, after days, be set to process everything up \$1,000 (present limit \$500). After 60 days will put through everything up to \$500. However, for the present, they will a have authority to grant AAA emergent priorities.

• Appeals—Field offices, which now hand appeals under 60 "L" and "M" orders, we get jurisdiction over appeals under 136 a ditional orders. After 60 days, they whave authority to deny appeals in all case and to grant appeals in ordinary cases. A proval of appeals in special cases will have come from Washington.

Along with the decentralization program, WPB announced a change in procedure under the Controlled Matrials Plan designed to cut paper work after the first quarter of 1944, about two-thirds of the CMP 4-B application (small users) will be handled on an annual basis instead of quarterly. According to WPB's figures, about 5% of the carbon steel allocations now account to 80% of the paper work. By putting the small users on an annual basis, WP hopes to simplify the whole CM setup.

ool Deal Aired

ss pap

add

place

est adva n Board

hat it w Washin work 25

ials hop sfer mo the fel

verythi

ie 13

handli uests f

trial prower o

imitati

up li

calls

will h

ver app

ons up

limit !

r pen

oject :

will no plication After Ja

000 val

e em

to get

atens

after

g up 60 da

p to \$1 will n mergen

v hand

ders, w 136 a hey w all cas ses. A vill ha

on pr

inge i Mat

r wor

ication

an at

Accom of th

unt fo

ing th

WP

CM

WPB probes charges that 000,000 of items from Wright gine contract moved as scrap 40¢ a lb.

The oncoming problems of disposing surpluses left over from military control are being epitomized in Detroit, are charges were made last week that 000,000 in tools was sold, mostly as ap, for about \$76,000.

Washington began inquiry into the ter this week. The outcome probability will hinge on whether the tools

Washington began inquiry into the ter this week. The outcome proby will hinge on whether the tools restandard and usable equipment, or plete and special-purpose stock. st of the cleaned-out tools have med up in outlet stores, whose operatigure they can find a ready market their latest acquisitions.

Engineers' Second Guess—The tools duded around 100,000 drills, taps, mers, broaches, abrasive wheels, and ter bits, even some blank tool steel ands. They were bought for Studeter's Wright aircraft engine contract, tengineering changes made it necesy to replace them with new tools. Ecial orders then moved them to Desit, starting early this year, for storage an Army Air Forces warehouse.

There the tools were put on display sale at the prices originally paid them, for distribution only to prime contractors with high priority rates. Tool men who looked them over that time estimated that about half estock consisted of standard, catalog-

m tools.
Price Fright—Sales were slowed, hower, by the price tags. The tools had inally been bought as emergency remements, it was explained, and a good all of overtime work went into them, sing the costs. In the then current arket, the tools were considered gendly somewhat high-priced, even ough Army officers now maintain they are just the opposite. At any rate, there are scattering sales, and then business

iguished.

On July 26, a WPB official wrote the my Air Forces that the tools were solete and should be cleared out by means necessary, to economize on arhouse space. The AAF took the ling literally and sold the remainder the stock on a bulk basis, at 40¢ a lb. The matter had been all but forgotten hen an unidentified manufacturer mplained about it last week to a Desit reporter. The newspaper outcry lowed.

Higher Authority Blamed—The AAF adfastly maintained that it acted on tens "from higher authority." WPB we evidence of standing on its claim at the tools were obsolete, special-



WOMAN VS. WOMEN

Mrs. Helen Sprackling and one of her battle emblems (above) represent the liquor industry's heavy artillery against national prohibition's return. As head of the new women's division of Allied Liquor Industries, Inc., Mrs. Sprackling, author and editor, will fight the epidemic of local option elections by which dry forces hope to sneak in a repetition of World War history. Thus far her poster can claim a nar-

row victory in Kentucky where wets squeaked through with 1,400 votes to keep Pike County as its 6,000 service men "left it." But tougher fights loom in other parts of Kentucky (already 42% dry), and in Pennsylvania, Georgia, and Arkansas. With men of drinking age at war, these election petitions come mostly from women's temperance groups which boast 7,000 victories in 10,000 local ballotings since repeal. Against them, Mrs. Sprackling is turning her campaign.

purpose equipment whose value collapsed when the Studebaker job was changed. Whether the matter can ever be proved one way or another is questionable, for so far as is known no complete catalog of the scattered stock exists, although partial lists, put out last July, still repose in a few Detroit files.

Navy Is Balked

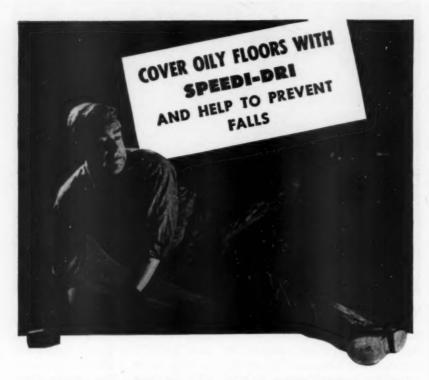
Lincoln Electric president rebels at \$3,250,000 refund from 1942 income; it looks like first renegotiation showdown.

While the Ways & Means Committee beats its head against the legal and equitable problems of contract renegotiation, the Navy's price adjustment board is working up to what looks like the first real showdown with a war contractor. Big, handsome James F. Lincoln, president of the Lincoln Electric Co., Cleveland, stalked out of the Navy Bldg, last week end vowing that he would never make the \$3,250,000 refund the board had just asked. Back

at his hotel, he promptly sent a letter to Chairman Robert L. Doughton of the Ways & Means Committee asking for a congressional investigation, concluding "we will resist to the end, but alone we are helpless."

• A Typical Case—Lincoln's case is more or less typical of the efficient, low-cost manufacturer who finds renegotiation particularly galling. In 1937, he did a gross business of about \$11,000,000, clearing \$2,985,000 before taxes and \$2,336,000 after taxes. In 1941, his sales were \$24,000,000; his net before taxes \$5,721,000; his net after taxes \$2,866,000. In 1942, sales were about \$34,000,000, and net before taxes and renegotiation was \$9,008,000. Between 1937 and the end of 1942, capital invested in Lincoln Electric increased from \$7,684,000 to \$15,912,000.

Complicating the Lincoln case is the fact that the Treasury has disallowed profit-sharing incentive bonuses to employees as deductions from taxable income in 1940 and 1941. This leaves the status of 1942 bonus payments in doubt and makes the company's tax bill uncertain. Before his meeting with the renegotiation board, Lincoln estimated income after taxes for 1942 at



Number One cause of industrial accidents is FALLS. Many falling accidents are caused by slippery floors—floors soaked in oil or grease. You can effectively control this hazard in your plant by covering your oily floors with SPEEDI-DRI, which provides an immediate non-skid surface and rapidly removes entirely the film of oil that causes so many accidents. SPEEDI-DRI soaks up oil like a sponge, even drawing old oil from wood, concrete, or metal floors.

If SPEEDI-DRI did nothing but reduce your accident experience, it would be well worth its moderate cost. But it does much more. Light in color, it improves plant visibility by light reflection. It saves workmen's shoes from oil-rot. It is an effective fire-retardant. Because it can be spread by hand and easily removed, it conserves vital manpower. It eliminates the need for expensive scouring. It does its work while the shop is in operation, without interfering with production for a moment. SPEEDI-DRI makes your shop safer, cleaner and brighter. Casualty companies actively recommend its use!

SPEEDI-DRI costs less per square foot of floor coverage than any other effective method or product! For proof, send for a FREE SAMPLE of SPEEDI-DRI and test it yourself. (If you use water-soluble oils, or if water is also present, ask for SOL-SPEEDI-DRI.)

See us at Booth 97, 32nd National Safety Congress and Exposition— October 5 to 7, Sherman Hotel, Chicago



SAVED: 4.4 BILLIONS

American industry has repair \$2,141,366,000 to Uncle Sam on war contracts by renegotiation in the 16 months ended Aug. 31.00 top of that, price reductions on work already on order but not yet delivered will save the procurement agencies an additional \$2,262,742,000, making the total \$4,404,108,000.

These figures do not include the benefits received by the government in the form of lower prices written into new contracts now that ordnance manufacturen have found out what their costs come to. And, while a lot of the money saved would have gone back to the government in taxs even if it had not been recovered by renegotiation, it is estimated that contractors would have been able to retain 25% to 30% of even more.

\$2,563,000. Refunding \$3,250,000 fore taxes would bring the net at taxes down to about \$2,000,000. It coln says further tax adjustments mix cut it to \$1,700,000.

• Up to Forrestal—With Lincoln staing pat on his refusal, the case now geto Under Secretary James V. Forrefor review. What happens after that pretty much anybody's guess. In half-dozen previous cases where of tractors have refused to make an agment with the price adjustment board.



James F. Lincoln and his Lincoln Electric Co. are challenging the Nato a finish fight over renegotiated. The winner's "purse:" \$3,250.000.



ASIDE from her dreams of flying in a helicopter ... how will the future affect your secretary's daily life? It's our guess that there will be just as many letters to get out every day. But with a difference!

When you replace her typewriter after the war ...it's likely the model you buy will conform to the ideas rendered here by Mr. Chapman. For he says...

"This particular design is based upon electrical operation. Thus the travel of the keys would be a scant eighth of an inch. Ask any girl, who really has to pound a typewriter all day, what this saving in effort and energy would mean to

her efficiency. The carriage, spacer, and 'cap' key are also electrically operated. And the machine is lighted from within so that the vagaries of office lighting do not have to be depended upon. The hous-

ing and keys, as well as many working parts, would be molded of Durez plastics. And why? First, they offer substantial reductions in weight. Second, Durez plastics are non-reverberating so they will not transmit machine noises in operation. And third, they offer the manufacturer real mass-production economies."

We wish we could tell you when such typewriters will come on the market. But we can tell you Durez plastics are doing their full share, serving our fighting men who are speeding the day when we can return to a peacetime economy. Durez Plastics & Chemicals, Inc., 550 Walck Road, North Tonawanda, N. Y.

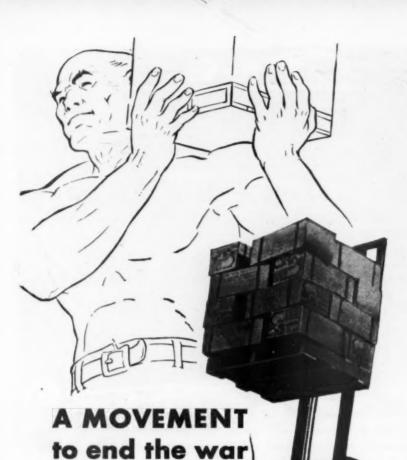
PLASTICS THAT FIT THE JOB

UY UNITED STATES WAR BONDS AND STAMPS *

siness Week • October 2, 1943

Lines the Na gotiation 0,000.

2, 19



Night and day.. month after month, Mobilifts are moving, stacking and loading an endless procession of war materiel destined for our far-flung battle fronts. Our army warehouses have learned the efficiency and versatility of these tough little giants.

For the past two years our entire output has gone to the army. Now an increasing number of units are being made available to essential industries.

Write us today regarding the possibilities of Mobilift for solving your materials handling problems,

MOBILIFT

Moves Materials like a Giant!

VAUGHAN MOTOR COMPANY • 835 S.E. Main St. Portland 14, Oregon 370 West 35th Street, New York 1, N.Y. 2430 South Parkway, Chicago 16, Illthe under secretaries of War and Na have upheld the boards, and the or tractors have given in eventually. Forrestal decides to enforce the Na board's decision, the easiest way to it will be to withhold payment a Lincoln Electric. The Navy also coput on the pressure by refusing to put on the pressure by refusing to the company new contracts.

Lawyers aren't quite sure what Li coln's next step should be. If the No starts withholding payments, probable could sue in the Court of Chim Until then, there isn't any establish legal procedure. Although a good ma contractors have bucked renegotiation none so far has taken it to the courts

More Ship Work

Chandlers, marine repair concerns, and other equipment suppliers do record business a war tempo quickens.

Rapid expansion of the United N tions merchant fleet has meant steady increase in business for shi chandlers, marine repair companies, an other maritime enterprises in leading U. S ports. Since the invasion of Sici and Italy, the upward curve has share ened into an almost perpendicular lin
• Faster Voyages—Behind the sudde improvement in the volume of orders Allied control of the Mediterranea which means that up to 7,500 miles a chopped off round trips to Red S ports through elimination of the lo ger route around the Cape of Goo Hope. For Liberty ships, this resul in a saving of approximately 40 day running time, hence they are able t deliver more war material in any give period and appear oftener at America docks for stores, etc.

When the rush developed about si weeks ago, the industry was caught of guard, and many headaches develope over efforts to locate scarce items which in some instances were slow coming from manufacturers even under high priorities and had to be forwarded the vessel's next port of call. Rationing red tape proved another stumbling block, not so much on food as on gasoline for lifeboats and auxiliary engines. Work Long Hours—These were no new developments. They merely adde to the existing problems of supplying and repairing ships under the quick turnaround necessitated by wartime conditions. Accomplishing this with decemated staffs is causing some firms to work their men 16 to 18 hours on bus est days.

In some instances, particularly with companies supplying deck and engine stores, it is just about impossible to utilize new employees since it take nd Na

the cally.

he Na
ay to dents de also calls to gi

hat Li

he Na probab Claim tablishe

od man otiation courts

ork

pmer ess a

ted N neant or sh ies, an leadin of Sici s shar lar lin sudde orders erranea niles ar led Se the lor f Goo resul 10 day able t y give merica out s ight o velope s whic comin er hig rded t tionin mblin n gaso





engines ere no

y adde pplyin quic

ne con

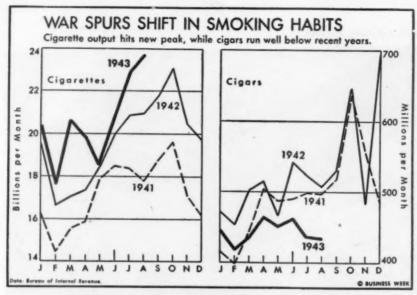
irms t

on busi

ly with engine ible to t take pilot is one of millions of intearmed forces who need ment that only your dollars by. Not just a few dollars had then but regularly—biller you can possibly invest a Bonds from now till Victory!

Over the interphone comes the bombardier's voice, "Bombs away!" Some day, some pilor will hear these words as the war's last bomb goes down. He will bring his crew home to their happiest landing—in a world where all men may look to the skies, not in fear of death, but in thankfulness for freedom.





Output of tobacco products for civilian consumption has shown a diverse picture since the beginning of the war, as evidenced by Bureau of Internal Revenue figures based on sales of excise tax stamps. For cigarettes, a new all-time high was set in August, while tax payments on cigars indicated a level of output well below recent years. If figures for sales to the armed forces (tax free) were available, the to-

tal picture would not be too greatly altered. The peak for cigarettes would be even more marked, while cigars would still fall short of the comparable months of 1941 and 1942, although demand is higher. Chief reason for this situation is shortage or labor. Cigar making has always employed more workers than the totally mechanized cigarette industry, lost more than 17% of them last year.

months to acquaint them with marine nomenclature. If asked for fids, fenders, fog buoys, or toggle bolts, they would offer blank stares instead of the wanted rope splicers, paint savers, night convoy signals, or the special bolts for plugging machine gun holes in lifeboats. • Unusual Demand-One Philadelphia company specializing in this type of business recently found itself with orders from 23 ships on hand in a single day, whereas that many in a month would have been considered good in the past. A few of these included complete stewards' outfits from coats and aprons to pots and pans. They had made the re-turn trip from Africa with just enough equipment to get by, leaving the rest behind to supplement that of the armed forces there.

Marine laundries are having the same manpower headaches as regular laundries, only it is impossible for them to follow the others' example in extending delivery times. Very often every bit of linen aboard must be returned clean and ironed in 24 hours.

• Small Ports Drafted—Major overhaul jobs are not as frequent as in peacetime. The urgent need for bottoms to deliver the goods on time finds many vessels making an extra trip or two before laying up. When the rush developed, repair firms found themselves without facilities

to accommodate the work, and ships were diverted to smaller ports to circumvent delay in returning them to service.

Such a thing was almost unheard of in prewar days when foreign flag ships usually had repair work done in their home ports to take advantage of lower labor costs. Most observers expect, however, that for several years after the war ends England will be the only country able to resume repairing on a large scale since it still repairs many of its own boats. Other nations have had their shipyards bombed.

• Putting on the War Paint—The tempo of marine business in this country has been closely allied to war developments. First of all, the loss of German, Italian, and Japanese orders caused a mild lag until British and French ships arrived in greater numbers. Then came Pearl Harbor, and most companies used practically everyone who could wield a paint brush to change U. S. ships to war colors.

There was one period of about two months when scarcely any vessels were putting into U. S. harbors, and pessimists went around saying 90% of Allied merchant ships must be sunk, but the North African invasion news revealed their whereabouts. The same thing happened on a smaller scale prior to the Sicilian campaign.

Happy Hunting

WPB lets down bar use of ammunition by Nim partly to aid farmers but to bolster food supply.

For six weeks, beginning of sportsmen can apply for ammuni hunt birds and animals under fairly liberal WPB order that hamper them nearly as much as problem of finding a dealer who the shells and cartridges to sell, • What the Rules Permit-A ha least can ask for a box of .22's, a center fire cartridges, and a box of gun shells whenever his stock 100 rounds of .22's (2 boxes), 20 fire cartridges (1 box), and 50 d shells (two boxes). And he can practically as often as he can l use them up in killing wild li threatens food crops.

WPB has even allotted 100,0 more .22's, in addition to the 20 000 promised in August along wif 000,000 shotgun shells and 12,0 cartridges of six varied calibers.

• Ammunition Made—The main

• Ammunition Made—I he main for this encouragement to hunting over-all increase in game, estima 10% above 1942, and the appare that munition makers have the s ready packaged. There's no ce though, that ammunition will dealers' shelves in time.

Last year 68,700,000 lb. of w bit, 60,000,000 lb. of venison, 3 000 lb. of wild duck and geese, 000 lb. of pheasant, and 9,000, of elk meat formed the bulk of 301,930-lb. kill-enough to feed a of 700,000 soldiers for 365 days. ing for a similar addition to the diet this year, the U. S. Fish & Life Service has been producing why hunters should be encoura • Many Depredations-Ducks and ants cause tremendous destr among grain crops during the season. In California's Impera Joaquin, and Sacramento valle instance, their depredations on t crop have been a problem for 50

Widgeon ducks are the paround Puget Sound. For severa now, they've been arriving after the hunting season, and the inroad have made on the cabbage seed there is so serious that it is one for price regulations on cabbage so Starvation Problem—Deer and browsing in winter, hurt orcharforests. But waste caused by dest wild animals is matched by waste animals that starve to death—losin that might better have graced a health.

Many states are offering cut-

ting n ban y Nim 's but ning (mmuni under r that ich as w to sell. :-A hu 22's, a' a box o stock f d 50 sl ie can can h 100,0 the 20 ong with bers. e main hunting estim appan e the s no cer will of wi ison, 3 geese, 2 9,000,0 ulk of feed a 5 days. o the n Fish & ucing i courag cks and destr the l is on t for 50 the p severa after th inroad e seed is one bbage i eer an orchan by dest waste -losin "Any job a woman takes which releases a man is a war job." g cut-

y.

Good for you, Mrs. Jones . . . and good for all your family! You're good Americans!

Back before she got married, twentyodd years ago, Mrs. Jones was a crack stenographer and typist; and she's still mighty good. So with Army and Navy and war factories draining the young folks from office work, she heard the call. She's back at a typewriter-back at a good old L C Smith -and honestly getting a kick out of it.

It isn't easy . . . for her or for her family. But it's truly patriotic . . . and it's smart. She's doing work she knows how to do... using a skill already acquired...and putting the surplus income into additional War Bonds.

Mrs. Jones, we salute you! And we hope thousands of sister secretaries will follow in your footsteps!

L C SMITH & CORONA TYPEWRITERS INC Syracuse 1, New York

SMITH-CORONA

Typewriters



ess Week . October 2, 1943

ber 2



censes to men in uniform whose happen to be within their border no general loosening of licensing tions has been reported. The 8.000.000 licensed hunters and] 000 licensed fishermen in the U sides the many who, because of age or because of state laws, may and fish without licenses. The gas age, of course, makes it harder for to get into the woods.

FAIR

A

armist

a quic

touris lag be

and t

produ

enos-Com

war to Coun

ed a come

Ins site, I

exhib times

thus

avoid

sitevisito

entifri

cturer

ase pe or use

orten

ther f

llocatio

Libe

ocat tha odu

oap p

onin

Imp

ats at

Th a war

Glycerin Is Bad

WFA lifts ban on its in drugs and toilet preparat and permits drugs 100% of 1940 usage; more fats for s

The glycerin drought, which last March for all food, flavoring metic, dentifrice, and shaving manufacturers (BW-Mar.27'43,p over. In addition, the glycerin for drug manufacturers has been creased from 60% to 100% of usage.

• Food Bars Down-In lifting March ban, the Fats & Oils Brand the War Food Administration le trade know that allocations wil made this month permitting cosm



FOOD FLAG

As an incentive to food producers War Food Administration month will begin passing out Aa flags (above)-an idea patterned: the Army-Navy E award prog Flags will go either to qualified counties-one to a state-or to vidual food processors, principall the basis of high production red but with other factors considered

Atlas. 4 TOOL TEAM for Small-Parts Machining

ATLAS PRESS CO.

1085 North Pitcher St. Kalamazoo 13D, Mich.



Business Week • October 2,

FAIR TALK IN L. A.

ir borde

censing:

rs and I

the U

ause of

IVS, ma

The gas

Bac

on its

repara

)% of

ts for a

which !

lavoring

aving

27'43,p8

ycerin of

lifting ils Brane

ntion let ons will ong cosm

ducers

erned

prog

lified i

or to

n rece idered

er 2.

A world's fair, right after the armistice, is Los Angeles' idea of a quick shot in the arm to revive tourist business, make jobs, fill the lag between booming war work and the actualities of peacetime production.

The project has already started a war of its own, for some Angelenos-including the Chamber of Commerce-protest that there is a war to win. But the Los Angeles County supervisors have appointed a commission to plan and over-

come opposition.

Instead of centering on one site, there is talk of dispersing the exhibits around the county (three times the size of Rhode Island), thus scattering the crowds and avoiding any dispute over a single site—with helicopter buses to take visitors around.

entifrice, and snaving cream manucturers to use 90% of their 1940 ase period. All requests this month or use of glycerin in margarine and hortening will be granted, and all ther food and flavoring requests for locations will be granted up to 100% f 1940 usage.

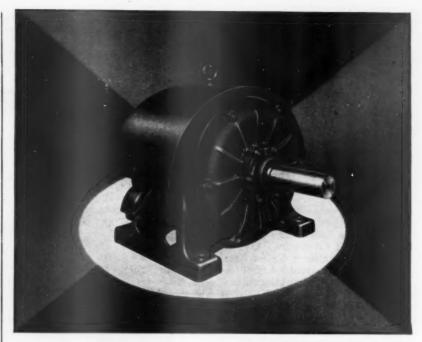
The ban worked a particular hardtip on dentifrice manufacturers who ere unable to find a substitute for this etting agent in their tooth pastes. fter a search for substitutes, some and they could get by on corn sirup, ugar sirup, or a molasses sirup, but overnment controls made these hard o get, particularly for products which id not have prewar base periods.

Soaps Get Fats—Although governent men always are inclined to take
pessimistic view of glycerin supplies,
here are indications in Washington
but the liberalized glycerin allocation
rogam will last at least through the
put of the year, if not longer.

Liberalization followed a formal

Liberalization followed a formal WFA statement that the fats and oils location for soap will be increased that soap companies can hike their moduction by 28%. This increase in map production is designed to set at rest courring reports of imminent soap rationing.

Imports Are Up—WFA said that improved shipping conditions permitting increased importations of fats and nik, increased production of domestic ats and oils, and use of rosin and other tonfat soap extenders by some of the large soap producers will contribute to the increased production. The basic illocation of fats and oils for soap will be increased from 80% to 90% of 1940.41 use, but industrial soaps will set 110% and mechanics' soaps 150%.



From All Angles -- All The Time!

Wagner

PRODUCTS

reflect sound engineering and modern manufacturing methods

The repercussions are terrific when salvos are fired from the big guns on battleships—yet Wagner electric motors, which are part of the operating mechanism, withstand the jolts. These motors are "built to take it."

Battleships, troopships, and cargo ships are but a few of the many places where Wagner motors are proving their dependable performance these days. You'll find them in airplanes, in factories, in power plants, in mines, etc.

Ever since the company was established in 1891, Wagner products have maintained a reputation for dependable performance. This applies not only to Wagner electric motors, but also to Wagner transformers, fans, and industrial hydraulic braking systems.

If you need motors, or other products made by Wagner, consult the nearest of Wagner's 29 branch offices, located in principal cities and manned by trained field engineers.

FOR VICTORY-BUY U.S. WAR BONDS and STAMPS

E45-4

Wagner Electric Corporation

6460 Plymouth Avenue, St. Louis 14, Mo., U. S. A.

ELECTRICAL AND AUTOMOTIVE PRODUCTS

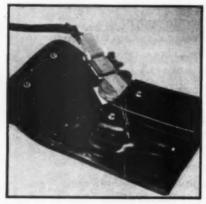
Higher Oil Price?

Petroleum interests from Southwest and Midwest run to Congress, and PAW again aids them in plea for 35¢ rise.

The oil interests-and these include big chunks of the population in the states of Texas, Oklahoma, California, Louisiana, Mississippi, Illinois, and Kansas-again are storming Washington for a price increase on petroleum. And once more they're getting support from the Petroleum Administration for War. • Want 35¢ a Barrel-Donald Knowlton, production director for PAW, before a subcommittee of Senate Naval Affairs this week, revealed that his agency and the Office of Price Administration are still at loggerheads on what crude oil should bring in order to spur output. OPA, he says, still is advocating a price subsidy instead of the 35¢ a barrel advance recommended by PAW. Further, Knowlton agreed to send the subcommittee all the PAW-OPA correspondence relating to the argument.

Congressmen from the oil states are back in Washington with renewed determination to do something about oil prices. They hope to persuade Texan Sam Rayburn, speaker of the House, to lead a fight for legislative price fixing. Rayburn's home district, north of Dallas, doesn't produce oil, but anyone in Texas politics or business has to be sensitive to the oil situation. Rayburn, now considered a strong vice-presidential possibility, is no exception.

• More Drilling-To line up support from the East, the oil bloc will argue



BELIEVE IT OR NOT

To keep their powder dry, New York's pistol-packing lady cops now sport swank cowhide utility holsters with a separate compartment for makeup kits. Designed, made, and donated by Coty, Inc., the bags have another pocket for money and handkerchiefs.

that a price increase would induce a flock of big and little operators to start punching holes in the ground in the oil country, and that the ultimate result inevitably would be more oil and more civilian gasoline. An increase of 35¢ a barrel in crude oil price might raise the price of gasoline a penny a gallon. But, if A-card holders were to get another gallon or two a week, there aren't many who would haggle over price.

The physical factors involved in getting new operations started, such as procuring thousands of feet of steel pipe for each well, drilling, pumping, refining, and transporting, oil men agree, would delay the effect of a price increase on the gasoline supply about a year. And in another year, the crude oil output figures to be lower than it is

• Aiming High—The most optimistic oil men doubt that such arguments would result in forthright congressional boosting of oil prices. But they figure that the noise may reach the White House with consequent effect on OPA.

On Thin Ice

That was the predicament of carbon dioxide industry until dry ice season waned. Next year it may be worse.

Carbon dioxide manufacturers heaved a sigh of relief as Sept. 15 ushered out the 1943 rush season for dry ice and liquid carbon dioxide, with probably not over a 25% shortage to most of their civilian customers despite tremendous and unprecedented wartime demands. There'll be plenty now until next June 15, but it looks bad for next summer.

• Machinery Needed—Increased production is stymied by lack of production machinery, rather than any shortage of raw materials. And even if the War Production Board should heed manufacturers' pleas for the critical materials to build additional production machinery, the additional facilities couldn't be ready until the 1945 season.

Natural carbon dioxide, compressed at the well into dry ice, accounts for only about 10% of the total U. S. production. It is produced in New Mexico, far from the heavily populated areas where it's needed most. Hence, most of the natural product goes to Southern California; some has been shipped as far as Kansas City, but this practice has proved uneconomical because of shrinkage.

 A Summer Seller-Normally the industry sells about seven times as much of its product in July as in February.
 Its chief customers are the ice cream industry, soft drink manufacturers, and motor freight operators who use it on



LEND-LEASE LIBERTIES

In flag raising ceremonies at Richmond, Calif., the War Shipping Administration hands over the first of two Liberty ships lend-leased to China, thus giving the Chinese the first transocean shipping. Christened the S.S. Chung Shan (above) and the S.S. Chung Cheng, the historic vessels bear, respectively, the formal names of China's first president, Dr. Sun Yat Sen, and Generalissimo Chiang Kai-shek. United States retains title to both ships which will be operated by the American President Lines with Chinese crews.

refrigerated trucks. This year these civilian users probably didn't get more than half the industry's production, which in prewar days was something like 400,000,000 lb. annually.

With dry ice manufacturers hard put to keep all their civilian customers sup plied, the ice cream and soft drink pro ducers had to bow to the transportation requirements, deemed more essential to a war economy. But since their production was limited anyway by shortages of sugar and bottle caps, not to mention production quotas, their reduced supply of dry ice and liquid carbon dioxide probably amounted to just another headache, rather than a major hardship. • A Useful Inflation-One of the mon dramatic wartime uses of compressed carbon dioxide is its employment in the inflation of life rafts and "Mae West" life preserver vests. One of the product new industrial uses is softening aluminum by reducing it to a temperature of -40F before it's fabricated into aircraft

UNDERGROUND MOVEMENT

american Style!

Unlike the furtive sabotage of subjected Europeans, America's mining industry is strong and free. It is essential to victory, for the nation's mines are charged with the grave responsibility of supplying the metals so vital for weapons of war.

To keep abreast of ever-increasing war production, the mining industry relies extensively on Cleveland Rock Drills. Thirty-five years of outstanding peacetime performance have proved that Cleveland Drills have the speed and stamina needed for the toughest wartime jobs.

To put Cleveland Rock Drilling equipment to the best possible use, our engineers are always at your service.

THE CLEVELAND ROCK DRILL CO.

Division of The Cleveland Pneumatic Tool Company.

Cleveland, Ohio. • Branch Offices in All Principal

Cities and Mining Centers

CLEVELAND

BUY MORE U. S. WAR BONDS AND STAMPS

Business Week • October 2, 1943

at Rich

first of

ased t

ese their

and the

oric ves

formal

ent, Dr.

tates re-

will be

resident

ir these

et mon duction, hing like

hard put

rink procortation ential to produc-

rtages of mention d supply dioxide another ardship, he more apressed t in the West" roduct's a alumiature of aircraft

2, 1943

THE WAR-AND BUSINESS ABROAD

Business Dealt in on War Talks

Elevation of Stettinius to unfamiliar diplomatic ground and Beaverbrook's admittance to the cabinet viewed as a nod to the industrialists in impending Anglo-Soviet-American discussions.

Appointment of Edward R. Stettinius, Jr., Leo T. Crowley, and Herbert H. Lehman to new and more important posts in Washington must be viewed in international perspective.

• How They Line Up—From the Lend-Lease Administration, Stettinius moves into the post of Under Secretary of State, recently vacated by Sumner Welles. From the Office of Economic Warfare, Crowley moves to head a new high-ranking agency, the Office of Foreign Economic Administration, while retaining his jobs as Alien Property Custodian and chairman of the Federal Deposit Insurance Corp. Lehman relinquishes the directorship of the Office of Foreign Relief & Rehabilitation Operations—now subordinated to Crowley's OFEA—to become a special assistant to the President.

Almost simultaneously, Prime Minister Churchill boosted Lord Beaverbrook to cabinet rank—as Lord Privy Seal—and made other important promotions within the British war setup. Meanwhile, the Red Army captured Smolensk and hammered at other German positions along the Dnepr River.

• Soviet Aid Advocates—Already the promotions of Stettinius and Lord Beaverbrook to key war posts have been linked with preparations for the Anglo-Soviet-American conferences scheduled for later this month. Both men are advocates of all-out material aid to Russia, both have worked with Soviet representatives negotiating this aid.

Beaverbrook is expected to arrive in Washington shortly for consultations concerning British and American relations with Russia. Stettinius is expected to accompany Cordell Hull to the three-power meeting if the 72-year-old Secretary of State undertakes that mission.

• Business Men Approve—Appointment of Stettinius to the State Dept. staff is welcomed by business men who feel that international relations—particularly relations with the U.S.S.R.—require hard-headed negotiators for the protection of American economic interests in the postwar world.

It is increasingly evident that discussions now going forward and pending, whatever the constitutional limitations on the powers of the executive branch, are bound to affect the future pattern of world economic relationships radi-

cally. Selection of Stettinius, a man inexperienced in political or diplomatic maneuvering until he went to Washington, is taken to indicate Presidential recognition of this trend and of the need for arming the State Dept. with a spokesman whose language is familiar to executives.

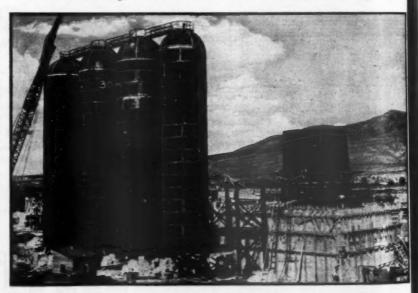
In business, Stettinius was a vicepresident of General Motors and later chairman of the board of United States Steel. He first became identified with the Roosevelt Administration's defense program as the man who brought up to date the 20-year-old mobilization plans of the government (BW-Oct.28'39, p55). Stettinius was a member of the National Defense Advisory Commission and its successor agency, the Office of Production Management, but with the creation of the WPB he was shunted off into lend-lease as administrator and became special assistant to the President. • Reduce Bureau Conflict-Creation of

 Reduce Bureau Conflict—Creation of the Office of Foreign Economic Administration—outside of but work closely with the State Dept.—will go toward reducing conflicts bether washington agencies here and about the state between vice-fine dent Henry Wallace and Secretary Commerce Jesse Jones over the stangled operations of the late Board Economic Warfare and the Remarket of the state of

Subordinated to the Office of Fe eign Economic Administration under Crowley will be the OEW, the Office Foreign Relief & Rehabilitation Open tions, Lend-Lease, and OFEC.

It is no secret that OFEC failed in aim to rationalize and groove the facign activities of war agencies now also ordinated to OFEA. It is also we known that one important point of easilities that the State Dept. underlings staffing OFEC. Raised to a new level of more portance in the Administration, Cropley will have the necessary rank the discuss policy matters that concern the State Dept. with Secretary Hull, Under Secretary Stettinius, and other the officials.

• Roosevelt Scrutinizes Relief—The appointment of Herbert Lehman to a position inside the President's private cabinet—paralleling Winston Churchill's so-called "second cabinet" on which it



STEEL FOR MEXICO

At Monclava, Mexico, Armco International, subsidiary of American Rolling Mills Co., supervises construction of a steel mill to have blast furnace capacity of 110,000 tons of pig iron a year, openhearth output of 128,000

tons of steel. The rolling mill will be able to turn out 60-in. plates. Altoas Hornos, Mexican steel company, has put \$12,000,000 into the mill for which Armco is furnishing technicians and management. Over and above existing mills, Mexico needs about 250,000 tons of fabricated steel annually.



Micro Switches also play a vital role in the Dependable Functioning of the Barber-Colman Aircraft Controller

The thumb-size, feather-light Micro Switch is not only an important part of aircraft, tanks, ships, machine tools; but it is a vitally important part of other parts which go into many important production items today.

They are important as limit switches in the Barber-Coleman Aircraft Controller which controls dampers for the governing of cabin temperatures and flow of air through superchargers, inter-cooling equipment, engine cowl flaps and tab control and as actuating means for the control of valves on various liquid-carrying lines. In fact, Barber-Colman has long used Micro Switches in Barber-Colman machine tools.

Practically every manufacturer who has once used Micro Switch in one product invariably extends the use of it to other products which they manufacture. This is significant to you. Not only now when Micro Switch's precision, speed, long life and absolute dependability are so important in war work, but equally significant when small size, light weight, and dependable performance will be equally important for new designs.

Micro Switch is the outstanding precision snap-action switch because it gives you the flexibility to meet an ever changing demand in precision switch requirements. Today Micro Switch is 2,392 different combinations of electrical characteristics, housings and actuators, the result of close cooperation with customers' design problems.

Your engineering staff should be completely informed on Micro Switches to speed up present designing and improve future products. We will send as many Micro Switch handbook-catalogs as your engineers may require.

Micro Switch Corporation, Freeport, Illinois Branches: 43 E. Ohio St., Chicago (11). 11 Park Pl., New York City (7) • Sales & Engineering Offices: Boston • Hartford • Los Angales

The basis are Switch in the basis, for the light plan, and as of proceedings are as witch than percent on force differentials as low as ¼ area and movement differentials as low as .0002". It is listed by the University Lab percentage with ratings of 1200 V.A. loads from 125 to 500 your A.C. the be supplied to a wide variety of hand a broad range of actuality anchors.



The trademark MICRO SWITCH is our property and identifies awardens made by Micro Switch Corporation

@ 1943

MICRO SWITCH

Made Only By Micro Switch Corporation . . . Freeport, Illinois

Pusiness Week • October 2, 1943

ut works

-will go f

between

Vice-Pa Vice-Pa Secretary or the

he Board he Reco subsidian opointme

omic W Office tion in 6 p5). ce of Fa ion und e Office ion Open ailed in re the fo now sub also w int of con DEW 2 s staffe vel of in on, Cros rank t ncem the ill, Unde ther to -The ap nan to hurchill

which i

Altoas ny, has which

exist-

1943

Wanted:

TRAINED EXECUTIVE

Large corporation has opening for a man trained in management, irrespective of the field. Procurement experience is desirable, but main requirement is managerial ability. Executive 35-40 with record of proven performance and potential capacity for carrying increased responsibility is required. This major position involves the direction of important operations. Statement of qualifications and experience, including age and draft status, may be submitted through a third party, if desired. Replies will be treated in strict confi-

Address: Business Week

Box P-357 330 W. 42 St. NEW YORK, 18, N. Y.

POST-WAR PLANS Ford, Bacon & Davis Engineers



On duty with the Army and Navy, Fyr-Fyter Extinguishers serve America in all parts of the world. On the bome front, too, they help protect the nation against crippling fire losses. If your business is esyou can now secure Fyr-Fyter Extinguishers for your protection. Other civilian users are doing without them so that the Armed Forces and you can be served first and the day of Victory hastened

THE FYR-FYTER CO. Dayton I, Ohio

may be patterned-indicates the President's recognition that he must keep close watch on the principles governing relief and rehabilitation operations as the war enters a phase in which Allied armies will reconquer vast areas of Europe.

As these administrative shifts in Washington and London pointed directly to the forthcoming attempt to dissolve the outstanding differences between the Anglo-American and Russian blocs within the United Nations, the published text of the proposed plan for establishment of a United Nations Relief & Rehabilitation Administration emphasized the need for unity among the Big Four"-the U.S., Britain, China, and the U.S.S.R.

• United Action—U.N.R.R.A., as it is described in the draft proposal for its establishment-submitted to all United Nations-is geared to united action by the "Big Four." Their representatives to the council of the U.N.R.R.A. would comprise the central committee empowered to act in emergencies without consulting the council, and without their unanimous consent, no major revisions of U.N.R.R.A. power, policy, or activities would be possible.

The basic considerations behind these recent shifts in administrators are in the main related to practical economic and material problems which will increase in importance as the war moves toward an end in Europe. But this is not the only area for dissension among United Nations, and solution of the political problems of Europe is sure to require all the skill and acumen of present leaders and may compel additional reshuffling of top personnel as the dimensions of the problems are recognized.

Too Much Money

Rising circulation, refugee cash, and funds from exports flood Mexican economy; plans to sop up excess fall short.

MEXICO CITY, D. F.-The continuing rise in the total of money in circulation, only one feature of the increasingly serious Mexican inflation picture, has government and financial circles worried.

According to an official study just released, monetary circulation has grown 250% since 1934. During the same period, agricultural production increased in value by 46% and industrial output by only 50%, creating large idle funds which inevitably lead to a rising pressure on prices. Meanwhile, the total quantity of goods available in the country has continued to decrease during the war.

· More Cash Money-In the past, the increase of circulation has been relatively small and due mainly to govern-

RAIL-RIVER LINK UNDER CONSTRUCTION

In the interests of national defense Brazil is building North-South railroa links to expedite internal communica tions (BW-Jun.5'43,p62). Along this route, an abandoned rail line which bypasses the Paulo Affonso Falls wil be joined to the coastal line to tap th rich agricultural and livestock-produc ing regions of the Sao Francisco Va ley (BW-Jun.19'43,p101). Although primarily concerned with war-essentia communications between air fields an coastal cities, Brazil is not forgettim long-range programs for the develop ment of backward areas.

VI

VI

ment spending. Since 1942, however the rise has been accelerating due two new wartime factors: (1) the favo able trade balance (in 1942 the exce of Mexican exports over imports ran t around \$50,000,000), and (2) the grainflux of foreign and repatriated Medican capital (BW-Jul.24'43,p46). Be tween April, 1942, and June, 1943, or culation media (notes, coins, and credits increased \$220,000,000.

The logical way of disposing of suc an excess would be through spending abroad, but since this is impossible, th government is attempting to freeze large a part as possible by increases in ta rates, the selling of a \$40,000,000, 69 internal loan, and the encouragement

gold hoarding.

• Loan off to Good Start—The first \$10. 000,000 slice of the loan, launched i June, was fully subscribed in 24 hours and the banks are expected to absort the remaining \$30,000,000.

Strange as it may seem, the gold

hoarding program was less successful In spite of widely publicized invitation to the public to buy specially minter 37.5-gram gold slugs, sold at their gol

Send for a FREE COPY of this New Book

A CANAD	
TABLE OF CONTENTS (Co.	
IV. Stiffness and Modulus of Elusticity. Factors Affecting Stiffness Other Effects of Modulus of Elasticity	NIAT C
V. Compressive Properties	NING WITH CSIM ents. Propert Replaced. Efficiency of Desir Crusa-Section. ation.
VI. Strength in Bending Elastic Strength in Bending Ultimate Strength in Ben	COLL Auton
YII. Hardness and Wear B Resistance to Wear . Shriak and Press Fig Ball and Roller Be	apes
VIII. Resilience and Resilience Toughness Notch Impa	eatment.
IX. Resistance Enduran Effect o	file Strength and Yield Strength aracter of Stress-Strain Curve
X. Damp	Dimensional Changes in Service Growth Creep
AMERICAN MAGNESIUM CORPORAT	XIII. High and Low Temperature Pr Properties at High Temperatures Properties at Room Temperature a Melting Temperatures Properties at Low Temperatures
CORPORATE	Thermal Dillusivity
Shear Street Torsional Strengts	Radiation. Latent Heat of Fusion. Flammability.
Here's the up-to-the-minute information	American Magnesium Corporation,

MAGNESIUM. It should be in the hands of

every designing engineer, every engineering department. Whether you are designing wartime products of magnesium or thinking about how you can cut the weight of postwar products, this book will help you. It's chock-full of answers to many design problems.

Use the coupon to send for your free copy today I

AMERICAN MAGNESIUM CORPORATION SUBSIDIARY OF ALUMINUM COMPANY OF AMERICA

Please send me a free copy of the new book, "Designing with Magnesium".

Name Company_

2, 194 usiness Week • October 2, 1943

NK

defense

h railroa

ie which Falls wi o tap th k-produ isco Va

Although

essentia fields an

orgettin develop

due t he favor ic extra ts ran t the greated Meu 6). Bo 943, ci credits of suc pendin reeze a es in ta

00, 69

rst \$10

ched i hour

absor

ne gol ccessfu

itation minte

eir gol



MONTGOMERY ELEVATORS



THOUSANDS of passenger and freight installations throughout the country have proven that Montgomery Elevators are more efficient and economical. Accurate records on Montgomery installations show that practically no major repairs have ever been required. Too, original cost of Montgomery Elevators is generally lower than that of other makes. New buildings and remodeling projects now being planned will require the finest in elevators. Investigate the advantages of Montgomery Passenger and Freight Elevators for your buildings if vertical transportation is required. Complete Elevator Planning Service available on request!

MONTGOMERY'S PART IN THE WAR

... planning, building and installing elevators in arsenals, Navy yard buildings and ordnance plants. Building machine tools and electric steering engines for ships.

BUY WAR BONDS AND STAMPS



HOME OFFICE - Moline, Illinois Branch Offices and Agents in Principal Cities value, sales were not as large as expected, being consistently smaller than purchases of regular gold pesos:

Mor	ith	15,		1	9	4	13							-	Gold	l	S	lug	8	G	old		Pe	\$05	8
Jan.					6										\$2	27	7,2	194	-	\$	25	9	,05	12	
Feb.											0				2	2.5	5,6	98			22	8	,08	10	
Mar.				0		0		۰	0				۰		3	16	5,4	146			36	4	,15	0	
Apr.					۰	0		0			0	0		0	- 3	39	9,6	59	1		77	6	,70	8	
May							0			0	0	0			3	33	3,7	27			63	1	,96	0	
Jun.						0					0	0	0	0	1	56	5,9	96			32				
Jul.												6			7	7	3,6	51			64	9	,13	0	
Aug.			0	*	×		×	10	*	*	*	×			4	15	5,4	198							
	T	bi	ta	1											\$33	38	8,9	69)	\$3,	23	6	,57	0	

Data: Bank of Mexico

Once more the well-known fact that Mexico is a silver and not a gold country has been confirmed. While only a few million pesos of gold were set aside by the public, hundreds of millions of silver coins were hoarded. Between March and July of this year, practically all of the silver coins (1 peso, and 50 and 20 centavos) disappeared. Hoarding was under way already, but it spread like wildfire after an unlucky decision by the government in April to issue one-peso paper bills to facilitate small transactions. This was immediately taken by the average man as a sure sign that the silver coins had, or would soon have, a metal value superior to their face value. By midsummer, silver had practically disappeared. Local banks were compelled to issue great numbers of 50-centavo checks to the bearer, and, in some places, people were cutting onepeso notes in two or using bus tickets for small change.

To dissolve the crisis, the Finance Ministry decided to apply the only sufficient remedy: minting of silver coins, day and night. Since July, the mint has been working at top capacity turning out some 300,000 pesos worth of silver coins daily (about \$62,000). Demand persists at 400,000 a day, but with mintage abroad prohibited by the constitution, the national mint lags behind demand. The situation is gradually easing, however, and silver pesos and half pesos (the 20-centavo piece has been replaced by a bronze coin) are beginning to reappear in stores.

CALI GETS RETREAD PLANT

CALI, Colombia—When the Rio de la Plata docked at Buenaventura last month, it brought Colombia a complete tire repair and retreading plant, latest development of the Goodyear Tire & Rubber Export Co. in this country.

The machinery, including Heinz molds and Vitacap kettle, has been installed and will begin operations early this month, with a single shift of nine Goodyear-trained Colombians. From a single-shift basis, capable of retreading 32 tires a day, the plant is expected to go on a 24-hour-a-day schedule as soon as additional workers have been trained.

The plant is under the direction of Goodyear's Colombian manager, Sulli-

van Kafer, veteran foreign manager wie experience in many parts of the world, addition to Latin America. He willy assisted by George Ruby, former a structor at the Goodyear time repassion of the government of t

ling

3.40

perate hey b nandii Char Comm

aper ard-p

AT

Can

ation

Ottaw

ual (

ind w States

total 1

ion.

Wi

mmu

Dept.

omme

woode

of ga

on wi

provin

rest

main

caribo

BAR

Ca

waitin

ter J.

revisi

tion .

hibite

tradit

made

ject t

save

the 1

prove

iesun

if Ils

It

to su

favor

BAT

C

has :

man

\$3.0

a for

War

lowe

cost

exte

Busi

Th

CANADA

Wanted: a Deal

Cabinet puts a political ear to the ground preliminary to deciding how to change its antiinflation line.

OTTAWA—Prime Minister Mackes zie King's government put off a decision on new anti-inflation controls this wes until it had digested reports on the pole ical climate of the Dominion supplied by its parliamentary followers in a extraordinary caucus. These reports in elected the fact that the public is all for controlling inflation but is sour and in tated by some of the forms which inflation-control takes.

• Concessions to Labor?—The government may retreat from its present limby accepting recommendations for concessions to labor, but its economic advisers are fighting hard for a compromise that would limit wage increases and east the pressure on ceiling prices. Latest suggestions would combine propose wage increases with an "alternature scheme for family dependency allowances to be paid by the Treasury (BW-Sep.25'43,p60). The cabinet's decision is expected within a week.

is expected within a week

Meanwhile, Canada is continuing to experience shortages in manpower. These now affect lumber and pulp out put (BW-Aug.21'43,p54), nonferrout mining (BW-Sep.18'43,p54), and a number of manufacturing lines. Out 1,000,000 farm workers have been frozen in their jobs by National Selective Service, and now 1,500,000 industrial workers have been nailed down. The latter total involves about 800,000 workers in Category A of essential dustry and 700,000 in Category B Voluntary separation or dismissal is now barred without prior permission from Selective Service.

• Exemption Trouble—The growing labor shortage and the scramble for workers have brought a clash between two sections of Canadian industry Income Tax Commissioner Fraser Elliot granted pulp and paper companies exemption from compulsory tax deductions for lumberiacks to encourage

ovement into the woods this fall. The ling applied to men getting under

lovement into the woods this fall. The ling applied to men getting under 3.40 a day and lowered deductions in igher pay levels to 2%. When lumber perators heard about the concession, hey beat a path to Elliott's door denanding similar help.

Chances are that the Income Tax commissioner will cancel the pulp and aper ruling before mining and other lard-pressed industries also jump on him

or assistance

ager wit

world

le will b

te teba

Cinne

the Par

Vicaragu

a

ical ear

ary to

its anti-

Macken

decision

this week

the polar supplied s in a

ports to

and in

ich infla

govern

sent line for con

omic ad ipromis

and ease Lates

proposed

ternativ

y allow y (BW-

decision

nuing to

npower

ulp out

and a

e been al Selec 0 indus 1 down

800,00

ntial in

gory B

l is now

n from

wing la

or work een tw

Income

nies ex

deduc

2, 1943

AT MORE GAME!

Canadians eat four times as much unationed wild meat as do Americans. Ottawa estimates the Dominion's annual consumption at 100,000,000 lb., or 7% of domestic meat production, while the 435,000,000 lb. of game, fish, and wild fowl (page 32) on the United States menu constitutes only 1.4% of total meat, poultry, and fish consumption

With the hunting season at hand and ammunition limited, the Canadian Dept. of Mines & Resources has recommended consumption of muskrat and woodchuck, in addition to the usual line of game meats. It is estimated that 50,000 Canadian Indians depend mainly on wild meat, large amounts going to dog teams in the North. Canada's nine provinces take more than 48,000,000 lb. of dressed game, the Yukon and Northwest Territories accounting for the remainder, 20,000,000 lb. at least being caribou.

BARRIERS DOWN?

Canadian government officials are waiting for decision by Finance Minister J. L. Ilsley on recommendations for revision of the War Exchange Conservation Act of December, 1940, which prohibited imports of many consumer items traditionally bought in the U.S. and made another long list of imports subject to permit.

The import barriers were erected to save exchange for war purchases below the border, but this position has improved recently and officials hope for resumption of trade in consumer items

Ilsley is amenable.

It is understood in Ottawa that prior to submission to Ilsley the plan received favorable reactions in Washington.

BANKERS RECLASSIFIED

Canada's National War Labor Board has allowed classification of junior bank managers, earning from \$2,000 to \$3,000 annually in Nova Scotia, below a foreman's rank under the Dominion's Wartime Wages Control Order. The purpose of the managers in seeking lower classification was to obtain the cost of living bonus which does not extend to officials.

YOU WIN TWICE WITH WAR BONDS!



Your 1st "win" with War Bonds is through our boys in the armed forces. You give them what they need to climb all over the Axis on every front until the enemy has enough and yells "uncle" to Uncle Sam. Then comes...



NOW

A \$1,000 WAR BOND PAYS FOR:

About ¾ of a "peep" car 150 Bayonets 1705 Clips of bullets 200 First-aid kits

2 Aircraft cannon

AFTER THE WAR

A modernized garage for your car—with automatic overhead doors

New rolling doors on your delivery trucks KEEP BUYING WAR BONDS!



BUILDERS OF ROLLING AND OVERHEAD DOORS IN STEEL AND WOOD

Business Week • October 2, 1943

The War-and Business Abroad • 47

WAR BUSINESS CHECKLIST

A digest of new federal rules and regulations affecting priorities and allocations, price control, and transportation.

Substitute Rubber

Substitute rubber in the form of raw material has been given ceiling prices in line with those of March, 1942, by an OPA ruling covering substances, made in whole or in part by a chemical process or from natural gums, resins, or oils, which may replace either natural or synthetic rubber. The order does not apply to finished objects or parts made of substitute rubber. (Amendment 2, Regulation 406.)

Safety Equipment

Restrictions on certain critical materials used in making safety equipment have been eased to permit the use of aluminum in specified parts of respirators, gas masks, oxygen-breathing apparatus, and goggles, where the use of other less scarce materials is not practicable; where possible, magnesium—released from the restrictions of this order—is to be substituted for aluminum in such equipment. Copper wire, copper base alloy, nickel silver, and nickel plating may be used in some types of safety spectacles. (Order L-114, as amended.)

Shearlings

All restrictions on purchase and processing of shearlings have been removed by WPB due to reduced demand by the Army Air Forces for this material, which is used for lining flying suits." This means that sale of shearlings is no longer restricted entirely to the AAF, and all future production in excess of existing military contracts is free to go into normal civilian trade channels. (Order M-310, as amended.)

Tires

The use of new passenger tires (Grade I) has been further curtailed by an OPA action, taken with the approval of the Office of the Rubber Director, that restricts eligibility for such tires to "C" drivers with a mileage of 601 or more per month. This temporary ruling supplants the order that all car owners whose mileage totaled 241 or more per month could obtain certificates for Grade I tires.

Production of additional recapping facilities will not be authorized after Oct. 1, 1943; after this date, manufacture of such facilities will be confined to maintenance and repair orders and equipment for necessary replacements. (Order L-61, as amended.)

Nylon Cloth

Approximately 600,000 yd. of parachute nylon cloth rejects and seconds have been released for essential civilian consumption without restriction as to use. However, none of it will be suitable for hosiery, which is woven directly from nylon yarn, not made from whole cloth. This announcement of the Textile, Clothing & Leather Division was made in connection with an OPA ac-

tion establishing ceilings for rejects of nylon parachute cloth, and covering noncellulose, chemically produced yarns or fibers such as nylon, vinyon, Aralac, etc. (Amendment 13, Regulation 127.)

Photographic Equipment

Manufacture of restricted photographic and projection equipment, accessories, and parts has been made subject to the specific approval of WPB under a new order, which provides that WPB will establish quotas for manufacturers on the basis of their schedules of preferred orders. In addition, each manufacturer may use critical materials to the extent of 3% per quarter of the weight of such materials processed by him during an average quarter in 1941, if approved by WPB. Critical materials cannot be used in amateur box or fixed-focus type portable hand cameras, in amateur 8-min. cameras, 8-mm. projectors, or parts for such products. (Order L-267.)

Soybeans and Cottonseed

To promote the orderly marketing of soybeans, a new Commodity Credit Corp. order provides allocation controls for soybeans for crushing and other uses, and prevents the withholding of soybeans for speculation by forbidding a processor to buy or use the 1943 crop, except as authorized by CCC, and by limiting the supply a coun-

try shipper may have on hand after Mar. 31, 1944. Inventories of cottonseed held by cotton ginners and other handlers are also restricted, and persons other than manufacturers, seed dealers, or ginners are forbidden to purchase cottonseed of the 1943 crop except to meet planting requirements. (CCC Order 6, for soybeans: CCC Order 7, fac cottonseed.)

Feathers

Civilian production of pillows, comfort, and other items containing either new or used waterfowl feathers is halted by WPB's amendment extending to use. To goose and duck feathers the ruling that limits the use of new feathers to military needs. Waterfowl wing and tail feathers, used chiefly for decoration and for shuttlecocks for badminton, are removed from the restrictions of the order. (Order M-102, as amended.)

Jams and Jellies

In furtherance of the program to encourage the use of bread by increasing the manufacture of spreads (BW-Sep.25'43, p65), the War Food Administration has announced the allocation of an estimated 60% of the total quantity of processed Concord grapes for use in making jams, jellies, and fruit butters, 20% is reserved for bottled grape juice, and 20% is to be held for future allocation. Maximum prices have been placed on grapes sold for commercial processing at levels substantially above those of 1942 but well below going prices. (Amendment 2, Regulation 425.)

Formulas for fixing maximum prices for packers, wagon wholesalers, and distributors other than wholesalers of fruit preserves, jams, and jellies have been fixed to reflect increases in 1943 fruit costs at the packer



THIRST QUENCHER

Latest portable device to turn salt water into fresh is a "belly still" operating on the principle that water in a vacuum boils at low temperature. Developed by two University of Min-

nesota scientists, the curved copper boiler is heated by body contact, the air exhausted by a crank-operated pump (on table). Fresh water, produced at the slow rate of one ounce an hour, is collected in a metal condenser trailed over the side. Aged by Nature
Millions of Years

... and now processed to produce International Defluorophos

From prehistoric phosphorus-rich mineral deposits, International is producing Defluorophos, a new feed supplement which supplies the essential calcium and phosphorus required for vigorous health and strong bone structure in poultry, cattle and hogs. Defluorophos is manufactured in limited quantities now. In future years it will provide an assured supply of these minerals from the practically unlimited storehouse of natural phosphate in International's Florida mines. New chemical processes were developed by International's research staff to

obtain from phosphate a feed supplement that is rich in calcium and phosphorus, low in fluorine content, wholesome, and consistently uniform in analysis and granulation. For more than thirty years, International has supplied farmers with plant foods to increase the quality and yield of their crops. And now International expands its service to agriculture with an essential ingredient for the feed that helps produce the nation's supply of milk, meat and eggs. International Minerals & Chemical Corporation, General Offices: 20 North Wacker Drive, Chicago.

International MINERALS AND CHEMICALS

Mining and Manufacturing

PHOSPHATE · POTASH · FERTILIZER · CHEMICALS

Business Week • October 2, 1943

Mar. 31 held b

new or WPB's

or decominton, of the

encour

for fu-

reflect

ounce

Con-

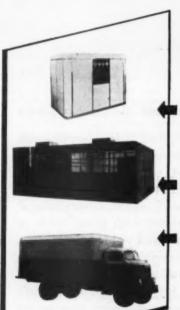
1943

49



When John Public Wants to Spend His 40 Billion Dollar Savings—

This STEEL STRETCHING STRUCTURE Will Help You Serve Him Faster



The pent-up buying power of the nation, says the Department of Commerce, will reach 40 billion dollars in 1944. The war's end can quickly bring a tremendous avalanche of orders—a new challenge to production. In three distinct ways, the use of Lindsay Structure can help you speed your Post-War Production.

Housings

—for equipment, appliances, machines. You'll find new speed and economy in the use of Lindsay Structure. No new dies—no special tools—no specially trained operators.

Factory Buildings

-rooms, partitions. Quickly erected with Lindsay Structure. Easily moved.

Delivery Trucks and Trailer Bodies

Light weight for greater pay load. Strong, for greater protection. Can be quickly provided by using Lindsay Structure.

Do you have the important details about Lindsay Structure in your files? Write, Lindsay and Lindsay, 222 W. Adams St., Chicago 6; or 60 E. 42nd St. New York 17.

LINDSAY STRUCTURE

U. S. Patents 2017629, 2263510, 2263511
U. S. and Foreign Patents and Patents Pending
For details, see Sweet's Catalog File



Blackstone Plush Mills, Inc.

Clinton, Mass. Block Drug Co., Inc. Jersey City, N. J. Callaway Mills (Two divisions) Ceco Steel Products Corp. Chicago, Ill. Clary Multiplier Corp. Los Angeles, Calif. Continental Optical Co. Indianapolis, Ind. Crescent Tool Co. Jamestown, N. Y. Henry K. Davies Co., Inc. South Kearny, N. J. The Fairmont Creamery Co. Crete, Neb. Line Material Co. Zanesville, Ohio Oklahoma Steel Castings Co. Tulsa, Okla. Phillips Packing Co., Inc. Cambridge, Md. S. H. Pomeroy Co., Inc. New York, N. Y. Prentiss Wabers Products Co. Wisconsin Rapids, Wis. The Rudolph Wurlitzer Co. North Tonawanda, N. Y.

(Names of winners of the Army-Navy and Maritime Commission awards for excellence in production announced prior to this new list will be found in previous issues of Business Week.)

level; at the consumer level, these increases will average about 3¢ to 4¢ on pound jan. (Regulation 473.)

701

I and

r you

You

n Ado

comj

umbe

n im

epot's

in, an

cated ified a

You

nd alv

Bags and Paper

Where manufacturers of kraft wrapping papers and certain specified bag papers and bags had an established practice during the period Oct. 1, 1940, to Oct. 15, 1941, of selling directly to purchasers other than distributors at prices in excess of those to distributors, these differentials may henceforth be added to their maximum prices. In no case may the price so arrived at exceed the maximum price charged by distributors. (Amendment 9 to Regulation 182.)

Aircraft Plumbing Fittings

WPB has ordered standardization of all aircraft plumbing fittings used by the Army Air Forces and the Navy. The action merely implements a policy which had already been established in fact by the services themselves. (Order L-313.)

Glass Containers

Several new types, sizes, and weights of standard glass containers have been added in an effort to encourage glass manufacturers to prepare new molds of simplified de-

Business Week • October 2, 1943



YOU'RE a bomber's nurse in North Africa and you need a new oxygen control valve your plane. That's one of 250,000 parts in force stocks.

You'll find it in a few seconds.

rapping pers and

ring the 941, of

han dis-

hose to

hence-

prices.

d at ex-

by dis

on 182.)

of all

e Army merely

dy been

ghts of added ufactur-

fied de-

1943

When spare parts come to a supply depot, a Addressograph* plate is embossed, giving complete description of the part, and the umber of the bin in which it will be stored. It impression of that plate goes into the pot's stock records, another goes on the in, another is attached to the part itself. Hen when parts are ordered, they can be cated and shipped out quickly—and identified anywhere.

You get your bomber into the air quicker ad always with the right repair because of an

Addressograph plate—the same kind you use in your business to write payrolls, purchase orders and invoices, for tool crib control, or any of the hundred ways Addressograph methods are used.

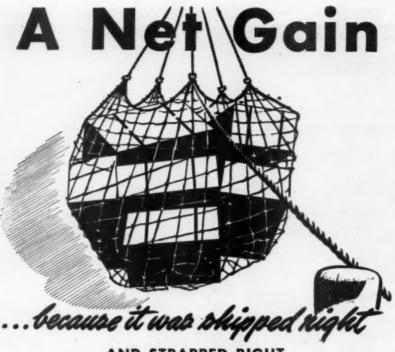
Years ago Addressographs were employed to address envelopes. They still are, but business men soon began using this quick, always-accurate way of writing information in scores and then hundreds of new ways. Teamed with Addressograph are Multigraph* and Multilith* methods. Together they can make 80% of all paper work of business simpler, faster, more accurate, more economical. We'll prove it in your own case, with equipment you already have. Write or call the Addressograph-Multigraph Corporation—Cleveland and all principal cities of the world.

*T. M. Reg. U. S. Pat. Off.

Addressograph

SIMPLIFIED BUSINESS METHODS

Miness Week • October 2, 1943



AND STRAPPED RIGHT

Over the side it comes . . . into the waiting hands of Allied fighting men. This shipment was a net gain for the Allies . . . because proper packing and reinforcement assured its arrival in perfect condition. Bound with Acme Steelstrap, shipments are reaching the United Nations safely all over the world. Providing maximum protection against damage, Acme Steelstrap complies with all Federal Strapping Specifications . . . is made in all types and sizes.

The shipment that reaches destination in perfect condition can help to bring down a Jap Zero-but the effect of a damaged shipment is only a zero. Remember, that a product becomes a war product only when it reaches the hands of those who use it . . . in perfect condition.

And safe delivery is only one advantage of Acme Steelstrap. This modern, reinforcing process saves important time in loading and unloading . . . conserves container material . . and saves loading space. It is used for all types of war products packed in boxes, crates, bundles or on skids . . . and for carload ladings, Acme Unit-Load Bands are employed. Get full information today. Write for free helpful literature.

ACME STEELSTRAP Eliminates Damage - Makes Shipments Count



Keeping the production lines moving while be boys are away—is the aim of many women industry today. The case and convenience Acme Steelstrappers are aiding many women keep the packing rooms in step with pro-uction.



signs so as to make available to users in prescription and proprietary fields a form lightweight line of glass contain Their use is not compulsory, but it is pected that the narrow-mouth bottle will shift from their present bottles to new simplified designs. (Amendment Order L-103.)

Kerosene Rationing

Local rationing boards are now authors to issue renewal rations of kcrosene periods longer than the six months for permitted to users of small amounts for mestic cooking and lighting purposes of (Amendment 80 to Ration Order 11.)

Lamb and Mutton

An amendment to the regulation pro-lamb and mutton carcasses and whole cuts provides ceilings for certain cuts wh the Federal Surplus Commodities Co wants for lend-lease shipment, increase packers' transportation charges in cert zones, and revises the price different which have hitherto handicapped slaugh ers in some areas of Idaho. (Amendment) Revised Regulation 239.)

Other Price Actions

Amendment 9,. Regulation 301, et lishes a new pricing method for deal surgical, and hospital supply houses sales of rubber drug sundries to keep to and wholesale prices at the levels of Dece ber, 1941. . . . Raisins packaged in sm machine-made cardboard cartons of less th two ounces are exempt from rationing cording to Amendment 68, Ration Or 13. . . . A markup of 1¢ per lb. over tablished ceilings for frozen eggs sold containers of 20 lb. or less-chiefly to l ers and confectioners-has been authori by Amendment 14, Regulation 333. Temporary price ceilings on ice cream a ice cream mix have been extended for next 60 days by Amendment 4 to Supp mentary Regulation 14A to GMPR, a Amendment 34 to Regulation 280. Specific dollar-and-cents ceilings are set f iron, steel, and plastic lines of tubular a cylindrical locks and lock sets sold by ma facturers and jobbers, at 5% to 20% l than prices for comparable brass product by Amendment 2, Regulation 317. Second Revised Regulation 213 establish retail ceiling prices for metal-frame be springs at from 25¢ to \$1.50 each less th maximum prices for wood-frame bedsprin of similar types.

Other Priority Actions

Porcelain-lined range boilers and l water storage tanks have been brown under simplification control by Order L1 Order L-199, as amended. . . as amended extends the restrictions on use of chromium and nickel in valves cover automotive intake valves as well exhaust valves. . . . Restrictions have be relaxed on the use of acrylic monomer a acrylic resins, used as glazing on certain parts of aircraft, by Order M-154, amended. . . . Due to increased produ tion, certain types of cotton duck have be released for civilian use, by Order M-91, amended.

ghter, Interceptor...

n operation in the world!

Designed and Built by "de Havilland"...a name famous throughout the world for quality. The Mosquito in this picture was built in Canada by

The de Havilland Aircraft of Canada, Ltd.

d whole cuts white Court in cer

301, esta for dent houses i keep ret s of Dece d in sma of less th tion Ord

ages sold effly to be authorized 333... cream anded for it to Suppl MPR, at 280... are set if tubular and by man by 20% kes sproduct 317

establish frame be h less the bedsprin

and he broughty WP refer L-12 was on the valves as well a have been corner at a 1-154. It produces the corner at t

2, 194



ODD WAY TO SCRUB A KITCHEN ... but it works!

Grease and dirt get along entirely too well together. Ask anyone who cleans kitchens or ship galleys. Even where fans pull cooking vapors out through unprotected ductwork, deposits of grease form on the ducts and present a serious fire hazard.

The safe, clean way to vent cooking odors and grease-laden vapors is through Air-Maze Greastop filters, easily installed in the range canopy. Miles of scientifically crimped wire mesh "capture" the dirt and grease that ordinarily coat cupboards, dishes and walls. When it's time to "scrub", merely flip out the panels and douse them in steam or a cleaning solution.

If you are building ship galleys or waressential kitchens, or if you plan to design or build after the war, write for full details about Air-Maze Greastop filters. Cleaner, Safer Restaurants, Kitchens or Galleys!



Cleaner kitchens, with practically no work—no odors in apartments—does that sound like a sensible postwar sales point to attract customers?

Then plan to use Air-Maze Greastop filters, and sell "selfscrubbing" kitchens!



AIR-MAZE CORPORATION

CLEVELAND, O.

AIR-MAZE

SPECIALISTS IN AIR FILTRATION

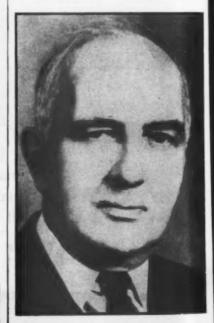
PRODUCTION

Patents at Stake

Dept. of Justice seeks to win cancellation in cold rolling process, alleging fraud, in first case of its kind in 50 years.

A set of patents for cold rolling steel, incubated in a little garage work-shop in Youngstown, Ohio, 20-odd years ago, has become the center of histor-making litigation. They're no strangen to the courtroom, these patents; their entire business life has been one lawsuit after another. But this time it's really big. The Dept. of Justice, charging fraud in the patents' issuance, is seeking their cancellation (BW-Jul.31'43,p8) in the first action asking for cancellation since the government's unsuccessful prosecution of American Bell Telephone Co. 50 years ago.

• Eventful History—The patents in question were issued to Abram P. Steckel and later transferred to the Cold Metal Process Co. of Youngstown. Both the inventor and the company are made parties to the Dept. of Justice's action, but Steckel was ousted as head of Cold Metal in 1933 by his principal backer, L. A. Beeghly. Now Steckel says he will let Beeghly worry about the outcome of the government's suit. (Steckel's current interest is another pet



Abram P. Steckel is battening his hatches for another court battle—this time with the Dept. of Justice over his patents for cold rolling steel.

Business Week • October 2, 1943



WHAT HAPPENED TO THE 4999th?

A TINY FLAW, a jammed gun, a boy's life's blood reddens the earth, out there in that leaden hail. Had someone blundered when the parts for that gun were made?

Five thousand parts make up that gun of his. Five thousand pieces of metal—yet only a single one need fail to cost his life so bravely given. Your neighbor's no or yours. Think now, what tremendous liability to tiny bits of metal!

What can we give? Only the patient

work that moulds and toughens fit metal for his fighting. Only the craftsmanship that forms each part with absolute precision. Only our sweat to save his life, our toil to help him toward Victory

This we can do. Metal is sacred—save it! This we can pledge. Each part, however small, shall move in the terrible motion of battle—true, sound and as nearly perfect as human skill and mechanical ingenuity can make it.

Such resolve controls the quality of

each Empire bolt and nut—each bit of metal on which a soldier's destiny may ride. To manufacturing processes which insure maximum strength and greatest accuracy, we add the personal energy and care so essential to Victory.

Free posters for your plant's bulletin boards, reproducing this ad with an appropriate slogan in place of our signature, are available upon request. Write Russell, Burdsall & Ward Bolt and Nut Company, Port Chester, N. Y.

RBEW Making strong the things that make America strong



Business Week . October 2, 1943

ttleistice

steel.

1943

57



THAT GROUNDED THE NAZI PLANE

It's a long trail from Nazi debris in Flanders to the Disston works in Philadelphia. But, gun powder... at the end of its trek from the cotton fields of Dixie... comes out of a machine in strands like spaghetti—it then must be reduced to granular form.

So, one of the many special tools made by Disston is a superior cutting tool called a powder head, including knives. Its efficiency is largely due to the accuracy with which the angular slots for the knives are cut into the head by a special Disston process. And longer life is given to the knives by a special steel developed by Disston.

The engineers at Disston are continually finding ways to improve the performance of tools for unusual purposes. And, into their manufacture goes the craftsmanship responsible for the extra quality of the standard Disston tools you know so well... wood and metal-cutting saws, files, hack saw blades, tool bits, machine knives, etc. For helpful information about Disston products, write Henry Disston & Sons, Inc., 1028 Tacony, Philadelphia 35, Pa., U.S.A.

First comes Disston engineering; then Disston craftsmanship. The result is the extra quality that distinguishes every Disston tool.



invention he says is being kicked arous in Washington—a new and secret den to trap submarines.)

But despite Steckel's attitude a studied indifference, the government civil fraud suit involves a sizable future. Cold Metal claims the Steep patents are responsible for the continuous process of steel rolling, with a tendant mass production, uniform his quality, and precision thicknesses down to 0.0015 of an inch-comparable that of cigarette paper.

that of cigarette paper.

• Four Years to Run—Cold Metallegal opponents, now including the Justice Dept. as well as several squarrons of patent fusiliers hired by various steel and machinery companies to resisted and that had been adapted to metal rolling before Steckel made his original patent application, in 1923. This dispute seem likely to outlast the basic Steckel patent which was issued in 1930 and will expirit in 1947.

The Steckel patents relate to a combination of two small diameter rolls backed up, top and bottom, with two large diameter rolls in the familiar "four high" rolling machinery, antifriction bearings, and power applied by tension on the delivered strip of metal rather than by the rolls. The antifriction bearings not only permit high speed open tion, but also dissipate hear from the rolls in order to prevent the buckling of cold rolled metal as it goes through the mill

• U. S. Steel Settled—Cold Metal's high gest licensee, in a group of about 20, if United States Steel Corp. In 1940, is Steel ended its legal fight against valid ity of the Steckel patents by an out-of court agreement to pay \$3,850,000 for the use of the cold rolling process up to that time, plus future royalties on even ton of steel processed through cold rollers. These royalties, not a matter of public record, are reported to range from 25¢ to \$1 a ton on most kinds of steel sheets, and up to \$35 a ton of high-carbon, special-purpose steels.

high-carbon, special-purpose steels.

From the time it was founded with \$60,000 capital in 1926 until after the U. S. Steel settlement 14 years later Cold Metal paid its stockholders in dividends. At one time, the compan was \$1,000,000 in debt. But in the last three years, it has liquidated all its debt paid its handful of stockholders \$4,500,000 in dividends, and paid the government more than that in taxes.

esp

• Many Still Hold Out—Although Steckel claims that more than three fourths of the cold rolled steel not being produced in this country is rolled by "infringers" who adopted his process without paying for it, licensed stee companies are reported to have pained to the cold Metal \$845,000 in royalties during the first seven months of this year Several of the unlicensed steel companies are reported to have pained to the cold Metal \$845,000 in royalties during the first seven months of this year Several of the unlicensed steel companies are reported to have pained to the cold Metal \$845,000 in royalties during the first seven months of this year Several of the unlicensed steel companies are reported to have pained to the cold metal \$845,000 in royalties during the first seven months of this year Several of the unlicensed steel companies are reported to have pained to the cold metal \$845,000 in royalties during the first seven months of this year.

How Your Fire Insurance, too, Helps "Pass the Ammunition"

Little-known services, now in vital war role, have reduced fire losses and average rates 40%...while your premium dollar has contributed to profits an average of only 22/3c!

cret deve

izable for

with a form high

parable !

Metall

by various to resist that the on idea tal rolling

al pater

tite seem

el patent vill expir

ter roll

with tu

liar "for

tifriction

y tension

ion bear

ed open

rom the

through

tal's big

ut 20,

940, Bi

ist valid

out-of

ess up to

on even

gh col

natter o

kinds o

ton or

ed with

fter the rs later ders no ompan

the las its debt \$4,500, govern

lthoug

el non

proces d stee

e pair

is year

, 194

*Dear Fellow-American: Few people realize that tanks and guns, planes and food supplies are reaching the fighting front faster . . . because of little-known extra services rendered by the leading fire insurance companies I represent.

"These services guard vital industries and individual homes and lives. And because they reduce fire losses, they have greatly reduced the cost of fire insurance to you as an individual.

"What are these extra services that work for our fighting men, and for you, while America's at war? Here are a few of them:

FIRE PREVENTION ENGINEERS. These experts act to improve fire protection of war factories, grain elevators, wharves and docks. They regularly inspect cities and towns from coast to coast—map fire hazards, check fire-fighting equipment and alarm systems, help to plan fire-safe schools.



"In 30 years, such services as these have reduced both the rate of fire loss and the average cost of fire insurance by more than 40%! Out of each premium dollar, 97½c on the average has been applied to the payment of policyholders' losses, taxes and other necessary costs of operation. Only 2%c on the average has remained as 'profit'—to strengthen the companies' ability to pay unusually heavy losses should they occur in the future."

Standard

Protection

Protection

A grant of the Leading Fire Insurance Companies who, since 1866, have maintained the National Board of Fire Underwriters for public service in fire prevention.

FREE! rescineting guides to help you hold your own Fire Prevention Week in your home! Included are interesting check lists to spot dangers—hints that might save your family's lives—ways to check fire hazards in your job or business. They're free—ask your fire insurance agent—or mail coupon now!



NATIONAL BO	et, New York 7,	RWRITERS, BV N. Y.	7 10-3-43
	□ Farm □ B	ial on fire prever usiness (Please r	
Name			
Address			
Munress			

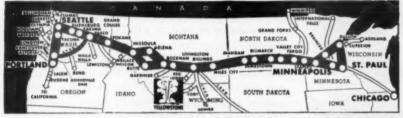
Guinea pig who "knows his apples"...



works for growers who ship . . .



enough apples to make 158 million pies . . .



over the Main Street of the Northwest!

Out in the Pacific Northwest they feed guinea pigs apples to determine vitamin content and measure vitamin value and potency. These experiments, conducted by university laboratories, have scientifically proven the high dietary value, and popularized the use, of Pacific Northwest Winesaps, Delicious, Jonathans, Rome Beauties, Yellow Newtons and other varieties world-famous for color, size and flavor.

From the fertile Yakima Valley and other orchards in Washington, from Oregon, Idaho and Montana, comes one-fourth of the entire United States apple crop—30,000,000 boxes. Each year hundreds of carloads of these apples—enough to make 158 million luscious apple pies—roll swiftly and safely to market over the Northern Pacific Railway, Main Street of the Northwest.

REMEMBER INTERNATIONAL APPLE WEEK-OCT. 23-30

NORTHERN & PACIFIC

MAIN STREET OF THE NORTHWEST

panies, as well as builders of their in equipment, are defending patent fringement suits, some of them at as old as the Steckel patents.

The government's patent fraud. Steckel says, is being brought in o "to vilify with elaborate accuss everybody who has tried to do so thing to aid progress, and to get for the fourth termites."

• Connivance Alleged—Assistant torney General Francis M. Shea charge of the government's suit, at this accusation little more that chuckle. He thinks the point at it is simple: a charge by the government's suit, at this accusation little more that chuckle. He thinks the point at it is simple: a charge by the government that Steckel could not have obtained patent in 1930 had he not connive deceive the Patent Office. This chief is based on a written agreement, significant by Steckel and by two rival applie for a similar patent, which Shead is prima facie evidence of fraud.

Steckel's first steel rolling pa application was filed on June 30, 19

and about three years later assign Cold Metal, which he founded. 1926, Florence C. Biggert, Jr., and I Johnson, both of Pittsburgh, app for patents on a similar process. applications were handled by the law firm, Byrnes, Stebbins & Parm of Pittsburgh, whose members plained that different attorneys engaged in each instance, and when conflict was discovered the interes parties were notified immediately advised that the firm was willing withdraw from either case, or both, • Agreement Reached-Instead, conflicting parties decided to get gether. Their agreement, dated J 20, 1927, provided that United E neering & Foundry Co., builder of s mill machinery, to which Biggert Johnson had assigned their applicati would press its case, and after Uni obtained a patent, Cold Metal, whapplication had been denied provisi ally, would then claim interference obtain a patent which would supers United's. Cold Metal had prior or oneer rights, it was agreed, but Un had a superior set of claims, chiefly "commercial success," which frequen carries great weight with Patent Of examiners. Although Cold Metal to get the superseding patent, Uni

len

HINK

was the

togress

And

47'S W

air ti

Com

een p

nodest

The

irst all

transpo

ust-to

rolling machinery for the steel indus. This is just what happened, accoing to the government's suit filed in United States District Court in Cle land. After United obtained a pate Cold Metal amended its application copying into it the claims made in Biggert-Johnson application, and wawrded a patent which took priori because of its earlier filing date, over United patent.

was to be given the right to make o

 Squabble over License—To ded the terms of United's license under Cold Metal patent, the agreement

60 · Production

Business Week . October 2, 19

Back the Attack - with War Bonds

len years after

heir n paten iem al fraud (ht in o accusal do s get 1 istant . Shea Suit. e that nt at overni btaine onnive

his chant, significant, signifi

ıd. ng pa 30, 19 ssigne nded. and I т, арр ess. the s Parm nbers neys 1 when interes ately willing both. ead, o get ted É er of s

plicati r Uni al, wh

provisi ence a

supers ior or t Uni

requen

letal 1

, Uni

ake o

indus

, acco

ed in

n Cle

pate

ation

e in

and 1

priori

over

deci

nder t reem

2, 19

THINK BACK, if you will, to 1933! That has the year in which the Century of hogress Exposition opened in Chicago.

And it was also the year the Boeing 47's were introduced by United Air ines - revolutionizing all former ideas air transportation!

Commercial ships up to that time had been principally biplanes or high-wing moplanes which chugged along at a odest 115 miles an hour.

The Boeing 247 changed all that. irst all-metal, low-wing, 3-mile-a-minute mansport, it reduced the fastest previous ast-to-coast time by one-third. In the recent words of an airline executive, "it made the greatest single advance in airline operating speed of any airplane before or after." Even now, practically every modern airliner is an outgrowth of this original Boeing 247 design

That's only the first part of the story.

Today, ten years after, when most planes of that era have vanished from the skies, twenty-seven sturdy Boeing 247's are doing heavy duty for the Army Air Transport Command. And many others are in service elsewhere in the world. One of these ships has flown some four million miles-and is still going strong!

The combined mileages of the Boeing 247's still in use would mount into astronomical figures.

Obviously, planes with such a record must be well designed and well constructed. The same research, design, engineering and manufacturing skills are responsible for the famous Stratoliners,* the transoceanic Clippers, the Kaydet PT's. (Primary Trainers), and those great battleships of the skies, the Boeing Flying Fortresses.*

Tomorrow as today, you can be sure of any product . . . if it's "Built by Boeing" it's bound to be good.

DESIGNERS OF THE FLYING FORTRESS . THE STRATOLINER . PAN AMERICAN CLIPPERS BOEING

THE TERMS "FLYING FORTRESS" AND "STRATOLINER" ARE REGISTERED BORING TRADE-MARKS

Week • October 2, 1943



Assistant Attorney General Francis M. Shea pushes the government's charge that Steckel's cold steel patents were obtained in 1930 through deception.

named three men as arbiters. Two of them died before a license could be drawn up, and since the agreement made no provision for successors, no contract now exists between United and Cold Metal, and United never has paid royalties on the process. United's right to translate the process into machinery, however, has been upheld in litigation that grew out of later disputes between the two firms. Now, their bitter court fights of a few years ago have been practically forgotten; executives of United and Cold Metal at present are

on friendly terms,

In their formal answer to the government allegations, Steckel and Cold Metal denied last week that there was any fraud in connection with their patent applications. They declared the Patent Office "was seasonably informed of all pertinent facts," and that the Steckel patent that took priority over United's patent was granted "over the opposition and protest of United," after the 1927 agreement had expired; that when Cold Metal sued Carnegie-Illinois (U. S. Steel) for infringement, neither the District Court nor the Circuit Court accepted contentions of fraud, and the Supreme Court refused to accept jurisdiction in the case when the steel company asked for a writ of

• Franchise Argument-The defense specifically denies that the government granted any "franchise" in the issue of the original patent "but was merely the grantor of United States Letters Patent No. 1,744,016." Cold Metal executives think this statement is significant because they understand that Dept. of Justice lawyers wish to treat patents as franchises, subject to government control and regulation, rather than as an outright grant of a monopoly for 17 years.

The Steckel-Cold Metal answer also took a crack at the government's con-cern with the public interest.

"Plantiff is not acting on behalf of the public," the answer stated, "but has brought this suit at this late time at the instance of and for the benefit of certain infringers."

Furthermore, the government had been so slow to assert its claims of fraud that it should "in equity and good conscience" be barred from maintaining

the present action.

• Helpful to War Effort?-In a footnote to the public benefit side of the controversy, a proponent of the Cold Metal cause argued that the continuous steel tolling process, which is claimed to hinge on the Steckel patents, made possible the quick conversion of strip mills to plate mills, and thus met demands of a tremendous wartime shipbuilding program.

In 1940, this side of the argument

runs, steel mills in the United States produced 4,000,000 tons of plate; in 1943, the figure will be about 12,000,-000 tons. Conversion of mills to make possible this expansion was a simple matter of adding shearing equipment at one stage in the continuous strip

process.

• Nature of Bell Case-The Justice Dept. has stated that its Cold Metal suit, which aims to free metal rolling methods "from an invalid patent and thus enable the government to enjoy substantial savings on war contracts, harks back to 1893 when the govern-ment sued to cancel Bell Telephone patents on the ground that the company, through fraud and conspiracy, abused procedure of the Patent Office in order to delay the issue of a patent for 14 years, thus making its effective life 31 years in place of the legal 17 years. In 1897, the Supreme Court decided the case in favor of the company.

The steel companies and machinery builders Steckel calls "infringers," who have not paid royalties, feel that so far as they are concerned, a government victory in the patent fraud case definitely would tie Cold Metal's hands in any efforts to collect royalties, past,

present, and future.

• Royalties Suspended-Now delayed by a choked docket in the District Court, the suit apparently faces a long, hard journey to final conclusion. Meanwhile, royalties to Cold Metal have been stopped by a separate government action. Using a 1942 act permitting procurement agencies to redetermine, or even cancel, royalties affecting any kind of war material, the government has notified all Cold Metal licensees,

effective last month, to pay no fus royalties. Cold Metal's recourse, para to that of other patent holders have been the target of similar orders designed to preven excess collections from war contractors, is sue for "reasonable" payments in Court of Claims.

fron

the est

tools

g befo

ists Of

uld b wly ma

stome xas, an ught eded

mover,

v abou

The so

Inance

e tool

task

ctor v

s it ca

inver

her un

e job 1

iong th

and

stricts.

Treasu

is un

ice to

obtai

rplus i

e tran

tablish

ruck b

ices h

acific

rake

ruck's

tank

Tools Kept Movin

Distributive techniques a private firm and the Chicag ordnance office help meet neet and may avert postwar glut.

Difficulty in obtaining prompt del ery of perishable tools such as a reamers, and cutters still delays prod tion in many a war industry, particula on new contracts. Yet almost en prewar plant has in its stockrooms toolcribs supplies of brand-new star ard tools which it cannot use.

• Old Tools, New Products-Usual son for a tool surplus in any plant that those tools on hand were bou for making products now discontinu do not fit the jobs currently got through the shop. These same tools m be the very types and sizes urgen needed by another plant a mile aw One authoritative estimate sets the st ply of idle critical tools throughout United States at \$25,000,000.

Half a dozen attempts by private dustry and government agencies to something about this problem of fam in the midst of plenty have failed. To programs currently operating in C cago are successfully shifting sup tools from the haves to the have-no • A Private Entrant-Longest est lished is Industrial Tool Stores, whi was set up by a local industrial (tributor to have a fling at redistribution of perishable tools. I.T.S. started in November, 1942, with a list of af tools which it had been able to b back from the parent company's indi trial customers. This list, with an of to sell these items and to buy any s plus items, went out to 35 large man

Since then, gathering momentu largely from word-of-mouth public among manufacturers, I.T.S. has veloped a mailing list of 800 plants serving 325 active accounts, and has inventory of standard items totali about \$20,000. The inventory is letter 5% of the outfit's stock in trade however. The other 95% consists tools left in the possession of the owners but listed for sale. Some la of tools for sale sent in by individu manufacturers have totaled \$50,000. • War Business Only-I.T.S. buys too from surplus stocks at the establish price that they would cost if boug

should be page 6 3 - ho pages missing

from their makers. It sells them the established resale price. Many of tools were procured by their owners before priorities, hence they could sold without restrictions, but I.T.S. sts on having the same ratings as ald be required if the tools were ely made and subject to war controls.
stomers have come from as far as xas, and one firm sent expediters who
ught \$10,000 worth of critically
rded tools. At the current rate of mover, a listing of stock is good for v about three weeks.

no furl se, pani

Iders w

milar s excess tors, is nts in

OVIN ques

Chicad

et need glut.

mpt del

ys prodi

articula iost eve

cooms a

Usual n

y plant

re boug continue tly goi tools m

urgen nile aw s the su ghout t

The second effective plan is getting under way in the Army's Chicago nance district office. The perishe tool section of this unit goes at e task by requiring that each con-ctor who completes his contract or s it canceled must promptly provide inventory of his tools, gages, and her unused equipment obtained for e job now concluded. These lists are plicated and then are circulated ong the office's engineers, to all arsen-, and to the twelve other ordnance stricts.

stricts.
Treasury Absorbs Loss—The contractive is urged by the Chicago ordnance fice to contact the sources from which obtained his tools and to resell the plus items at 10% below cost if the urce has unfilled rated orders to cover transaction. Any offers below the tablished 10% handling charge must



AFETY MAN

mentu

public

has (

plants. d has a totalii

is le

n trad

isists

of the me lis

divida

0,000.

rys too ablish

2, 194

enneth J. Glasmann, winner of Naonal Safety Council's "Safety Ace" ward, demonstrates an automatic uck brake, one of many safety deces he has devised for the Union acific Railroad. Used in unloading cavy car wheels from boxcars, the ake is automatically set by the wek's pitch, thus eliminating the inger of hand transfers. Glasmann, tank truck foreman, has been with him Pacific since 1917, has never een involved in a lost-time injury.



For the post-war era, Pluswood offers you a brand new technical material, high in aesthetic value, with an exciting weight-strength ratio. A wood alloy, made by a chemico-mechanical process, it possesses structural strengths exceeding those of many metals. A non-conductor with amazing qualities of density and toughness, Pluswood can be made to your pre-determined engineering description. Thick or thin, pliable or rigid, this wood of new wonders is available in thickness ranging from 16 inches to 1/16 of an inch, and in any size up to 7 feet by 18 feet. Highly resistant to swelling, shrinking, corrosion, fire, and thermal shock—Pluswood will retain its dimensional stability of the s ity so completely that only micrometer measurements indicate changes.

A dependable, responsible organization stands behind Pluswood from forest through saw mills. HEAT veneer mills and factory — established by the Lullabye Furniture Corporation, since 1897 America's foremost manufacturer of juvenile furniture. Pluswood maintains a laboratory service that you are urged to use. Write for an engineering bulletin plywood industry—with total pressing capacity up to 5,000,000 pounds.



WOOD Select northern birch or maple — cut from vast northern timber reserves.

RESIN Impregnated into veneers by methods and techniques developed by Pluswood research.

HEAT 300 K. V. A high frequency electrostatic generating unit—largest in the country for this purpose—delivering 540,000 B.T.U.'s per hour.

PLUSWOOD Incorporated, Oshkosh, Wis.

Associated & NORTHERN HARDWOOD VENEERS, Inc., BUBLINGLY, WISCORDA LULLABYE FURNITURE CORPORATION, Starens Point, Wisconsin Companies) ALGOMA FOREST PRODUCTS, LID BINCE OMENIE CANADA

CHECK LIST

OF

McGRAW-HILL

PRACTICAL BUSINESS MANUALS



Now ready — eight volumes in a special McGraw - Hill publishing program.

Here is a series of books especially planned to help business men with boiled-down, simple treatment of their problems.

These are primers of the functional activities of business priced low — written for fast easy reading— valuable for the smaller business owner-manager as well as the specialized worker and executive in larger concerns.

- I. METHODS OF SALES PROMOTION \$2.25
- By Kenneth S. Howard
- 2. HOW TO MAKE COLLECTIONS, \$1.75
- By Dexter Tomlin
- ☐ 3. HOW TO WRITE BETTER BUSINESS LETTERS, \$2.00
- By E. A. Buckley
- 4. HOW TO SELL BY MAIL, \$2.00
- By E. A. Buckley
- 5. HOW TO FILE BUSINESS PAPERS AND RECORDS, \$2.00
- By Allen Chaffee
- 6. HOW TO USE YOUR BANK, \$2.00
- By William H. Kniffin
- 7. HOW TO GET PUBLICITY, \$2.00 By Milton Wright
- 8. HOW TO WRITE ADVERTISEMENTS,
- By Kenneth S. Howard

MagRAW-HILL BOOK CO.
339 W. 42nd St.
New York 16, N. Y.
Send me books encircled below
for 10 days' examination on
approval. In 10 days I will
bay for books, plus few conts
pay for books, plus few conts
paid. (Postage paid on orders
accompanied by remittance.)

Examine any of these books 10 days on approval

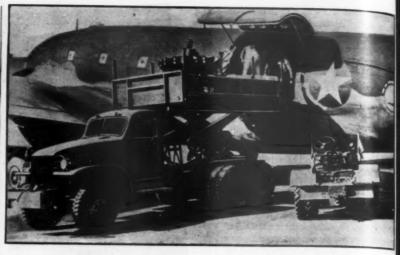
Name

Address

City and State

Company

D. W-10-2-43



PLANE LOADER

Flying cargoes are now lifted or lowered between truck and plane levels at the flick of a lever on General Motors' newest application of the jackknife power hoist (above). The device speeds up freight transfers at Army Air Transport Command bases by eliminating double handling. Alternate methods of loading and unloading the big C-46 Curtiss Commandos are with block and tackle or small industrial hoist trucks.

Pay

trol

leav

pov

tha

fice

Machi

md mar

for the

iness

1

get official approval, since the United States Treasury absorbs the difference between cost and resale price of the tools.

Since last May, when this plan began to function, the Chicago ordnance office has effected a large volume of surplus tool transfers to war plants which urgently needed the tools. Cost savings have been considerable, because tools are thus resold at 90% of cost, instead of bringing junk values. For the long term, the ordnance office is eager to prevent the building up in the Chicago area of a stock of unused tools which could bring chaos to the tool market for several postwar years.

\$2,500,000 COAL RESEARCH

Smokeless coal stoves, smokeless skies, all-year coal-fired air conditioning are but three of twelve major projects to be financed by the new 2,500,000, five-year research budget (\$500,000 a year) of Bituminous Coal Research, Inc., affiliate of National Coal Assn., both of Washington, D. C. Bulk of the activity will be centered in the laboratories of Battelle Memorial Institute, Columbus, Ohio, which has been research head-quarters for the bituminous industry since 1935.

Principles of smokeless combustion have already been demonstrated at Battelle where new forms of stoves, home furnaces, industrial furnaces, and automatic firing apparatus have been taking shape to "aid fuel utilization during the war and in the postwar future" (BW-Jun.6'42,p55). Other major projects include studies on the conversion of coal

into gas without byproducts, hydrogenation of coal into an ash-free liquid from which chemicals can be extracted more readily than from solid fuel, and an investigation into coal as an ingredient in brick manufacture and synthetic rubber production. "Fluid coal," a suspension of finely pulverized coal that burns like gas in a hot industrial furnace, is slated for further tests.

RUBBER TEAR GAS

A clever adaptation in the rubber program was the conversion of a Los Angeles fuel gas standby plant to making butadiene from oil, with a byproduct of fuel gas. Clever, because setting up a 2-billion-cu.ft. underground reserve of fuel gas released this plant for the production of rubber.

Unfortunately, the plant is almost in downtown Los Angeles, and when it started operating last summer, citizens began to complain of fumes coming into the business district, irritating their eyes like tear gas, worse some days than others.

Complaints spurred the Southern California Gas Co. to modify the equipment, with closed cooling and water clarification, but the job will not be done until December.

In mid-September, a heavy gas attack around city hall led Mayor Fletcher Bowron to order the plant closed. Casengineers explained that wind, barometer, and thermometer governed the volume of gas coming into town, then compromised on 20% operation—not likely to be troublesome—until the new equipment can be cut in.

MANPOWER... we can help you solve this Problem

Payroll "deadline" only a few hours away...comptroller waiting for important data... someone's leaving for Washington and needs a lot of figures... billing is late... and the monthly report must be on the president's desk tomorrow!

elimiternate ing the with

rogenad from

more

an in-

rubber

ension

ns like slated

er pro-

s Annaking

uct of

up a

e pro-

en it

tizens

ming

than

Cal-

quip-

water of be ttack tcher Gas

the then

-not

new

1943

Sounds familiar?...obviously a question of Manpower, and it's a Monroe wartime job to help you.

Monroe machines and the expert figure services that go with them are helping thousands of offices to carry this greatly increased load of figure work. If your office is undermanned, if fatigue and strain are wearing down the office workers you have, if your figure work is running behind, a Monroe representative can help you.

He can show how Monroe simplicity can make inexperienced help productive in less time. He can analyze your figure routine to find simplifications and short cuts. And if additional Monroe equipment is required, he will explain how we are prepared to cooperate with you.

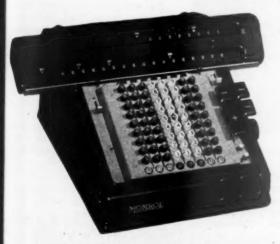
A timely example of Monroe's special wartime services is the new book

MONROE SIMPLIFIED METHODS FOR PAYROLL CALCULATIONS

... ask your nearest Monroe office to explain it; or send in the coupon.

Your Monroe machines are now more vitally important than ever. Keep them operating at peak efficiency through regular inspections by a trained Monroe specialist under our Guaranteed Maintenance Plan.

The nearest Monroe branch awaits a letter or telephone call from you.



MONROE

Machines for Calculating, Adding, Accounting

ecouse of skill, precision and long experience in designing of manufacturing Monroe machines, our plant was selected or the development and production of special war equipment requiring unusual exactness and accuracy.

	Calculating				
	send infor lethods for l				Sim
Name	***************************************	*************	*******	 	*********

Company.....

Address.



A Picture with a Story to Tell to Those Interested in Conserving Oil and Engines

This is a story of a spring. You'll find it only in DeLuxe Oil and Fuel Filter Cartridges. It is one of the engineering advances which makes possible the actual cleansing of asphaltenes and contaminents from oil before they can form into sludge and other destructive substances.

The spring is DeLuxe Engineering's answer to the problem caused by the tendency for unsupported car-

The spring is DeLuxe Engineering's answer to the problem caused by the tendency for unsupported cartridges to compress, as pictured above, when oil is fed through them. This compression changes the degree of cartridge density; prevents the maintenance of the correct oil flow; induces channelling whereby oilescapes without being properly cleansed. In all there are eight factors, including

In all there are eight factors, including a built-in cone in the cartridge, which contribute to the performance of the DeLuxe Oil Filter . . . factors which make possible actual oil cleansing of both fortified oils are facilities of the contribution of the contribut

which make possible actual oil cleansing of both fortified and non-fortified oils with equal effectiveness. The complete story is told in the booklet "FILTER FACTS," a copy of which is available without cost or ob-

without cost or obligation to every user or builder of diesel or gasoline engines. Write DeLuxe Products Corp., 1425 Lake Street, LaPorte, Ind.



ACTS

NEW PRODUCTS

Oil Ration Calculator

Newest circular "slide rule" is the "Fuel Oil Ration Calculator," printed on tough paper by Anderson Specialty Co, 215 E. 9th St., St. Paul, Minn., and sold for 25¢. You revolve a pointer on its 43-in. inner disk to the number on its 6-in. outer disk which represents your fuel allotment for the year. Locate on the inner disk the date on which the reading is being made. Directly opposite the date, read on the outer disk both the percentage of the heating season elapsed at the date and the number of gallons of fuel which you theoretically had a right to burn during the elapsed period. If you find you are burning too much, it is up to you to economize. The calculator, which can be used by oil companies and ration boards as well as by home owners and building operators, is based on data assembled by the American Society of Heating & Ventilating Engineers.

Cable Splicer

Production, construction, and maintenance men who have had the job of splicing, or clamping, wire rope around a thimble or bushing will appreciate the comparative ease with which it can be done when using the new Universal No. 101 Cable Splicer. As manufactured by Mechanics Engineering Co., Jackson,



Mich., the device consists essentially of powerful clamping jaws and an inbuilt length of sprocket chain.

You insert a loop of rope into the jaws, then a thimble or bushing inside the loop. As you tighten the jaws, the chain pulls and squeezes the rope securely into position, ready for splicing or clamping. To adjust the chain to differing sizes of ropes, bushings, and thimbles, you set and lock a button.

Precision Measurer

Round holes with diameters from 4 in. to 12 in., square holes with similar dimensions, holes of more intricate shape can all be measured quickly to a

precision of 0.00005 in. on the Sheffed Electric Precision Measuring Instrument, new product of the Sheffed Corp., Dayton I, Ohio. Used for eternal measurements or comparison with master parts or gages, it will che rounds, straights, and tapers within a maximum over-all dimension of 12 i and to the same precision. If a paticular hole is closed, it can be check for taper, bell-mouth, or out-of-roun ness to a depth of 3 in.; if the hole

Lurite

wark, N

du Pon stic. Ot

s for

ipped m into Although

nly to c

ar W

nmen

out d

ors th

Pro

o repo

intere

fields,

rt in t

ess allie

are th

hintingmised b

new che

ng Div

ele ounc

their e

s by or

electrot

nical s

copper

will g

res a si

letalwo

Chucki

s, mil

er mach

d or t

inch .

caress

anufa

Fort \

al fou

ltogeth

led or

tisize a

to hol

for le

he fixti

mp in s

bedplai



open, it can be checked also from other side to a depth of 3 in.

Business parts are gaging arms a an electric gaging head, called an El trigage, developed in collaboration w Westinghouse Electric & Mfg. Co. Y push a button, and an electric mecha ism raises the arms above a lapped ta surface. Height of the arms is shown a visual counter in hundredths of inch. When the arms are spread ap for checking a particular gage or pa any departure from standard is shown the Electrigage, the graduations which are so spaced that readings of proximately 0.0000125 in. can be terpolated.

Plastic Covers

Considerable quantities of alumin and other critical metals are being say by Wright Aeronautical Corp. a other manufacturers through the use Lurite Plastic Covers which protect openings in aircraft and tank enginduring assembly and shipment. In new covers, which range in size a shape from round cups for exhaustacks (right) to oblong flats, 16x8 for bolting over carburetor air inta (not shown), are fabricated to order

Lurite Corp., 480 Washington St., mark, N. J., out of transparent sheets du Pont Plastacele cellulose acetate stic. Other covers, smaller than the sport the exhaust stacks, come ipped with springs for snapping in into place.

heffie

heffie

for e

om t

ms a

n El

on w

nech

ed ta

own

of d ap

or pa

OWI

ons

s of

be

min

ig sav

p. a e use

tect |

engi t. T ize a

exha 6x8

inta

order

2, 19

Although they are all designed printly to conserve metal, their lightness



transparency are making them pular with factory operatives and emment inspectors. They not only nout dirt, chips, and larger foreign cits, but give a full view of the giors they protect.

w Products Briefs

the reported this week, not only for interest to certain designated busis fields, but also for their possible out in the postwar planning of more is alhed fields and business in gendare the following:

miting—Relief for electrotypers is mised by "B.C.F. Addition Agent," and chemical formulated by E. I. Font de Nemours & Co., Electroing Division, Wilmington, Del. A per ounce of it added to each gallon their electroplating solutions "resuby one third the copper required electrotype printing plates. . . . The mical so increases the hardness of copper deposit that a much thinner will give equal service . . . also miss a smooth finish and speeds the fing."

ktalworking-The new Wayne Col-Chucking Fixture for drilling mas, milling machines, shapers, and machine tools is designed to hold nd or tubular stock from "zero to inch . . . in a grip that is as gentle caress but strong as a bulldog." nanufactured by the Wayne Pump Fort Wayne 4, Ind., it comes with four-piece, blank collets, each together by a ring and ready to be logether by a ring and to the tsize and conformation of the stock to hold. Collet jaws can be hard-for long runs. Since all surfaces he fixture are machined, it can be p in several different positions on bedplate of a machine tool.



THOUSANDS DIE—TRAPPED IN CEILING OF ARMSTRONG'S CUSHIONTONE

NOISE DEMONS—thousands of them—are created by clattering typewriters, loud conversations, ringing telephones, and pounding business machines. But they die by the thousands wherever there's a ceiling of Armstrong's Cushiontone. By restoring quiet, this new material reduces errors and improves all-around office efficiency.

office efficiency.

In every 12" x 12" unit of Cushiontone there are 484 deep holes which soak up as much as 75% of the sound waves reaching the ceiling. This high efficiency is permanent—it is not even affected by repainting with ordinary paint and painting methods.

The cost of Armstrong's Cushiontone is surprisingly low. Its installation is quickly completed with little or no interruption to office routine. And maintenance is simplicity itself.

Cushiontone has a light ivorycolored surface which not only blends harmoniously with any decorative plan, but provides unusually high light-reflection as well. Being an excellent insulating material, Cushiontone also helps to conserve fuel and reduce air-conditioning costs.

JUST OFF THE PRESS

See our new illustrated folder, "How to Exterminate Office Noise Demons," for quick facts—and for pictures showing what Cushiontone has done for other offices. For your free copy, write to Armstrong Cork Company, Building Materials Division, 3010 Stevens St., Lancaster, Pa.



MARKETING

Post Milepost

Block of stock in famous old Denver newspaper is sold to daughter of one of the founders; financial facts revealed.

Fred G. Bonfils and H. H. Tammen were, in their lifetimes, the gaudiest showmen ever in the American newspaper business (and, their enemies said, the least scrupulous). They parlayed the Denver Post into a big newspaper. Never chosen among the top ten for editorial excellence, it nevertheless has been for many years in the charmed circle of the ten best money-makers.

• Facts on a Sale—This week a report in Denver probate court revealed, in unusual detail for a privately owned corporation, the Post's business record since 1938 (tabulation above). Agnes Reid Tammen, widow of Harry H. Tammen, died in 1942. Her estate owned the largest block, 1,459 shares, of the Post's 5,000 common shares. Seeking to diversify, the trustees sold 250 shares by bid. In connection with this sale, they made public the facts and figures.

The purchaser was Helen G. Bonfils (Mrs. George Somnes), intelligent, strong-willed elder daughter of F. G. Bonfils. She paid \$1,735 a share, or \$443,750. Post employees, headed by F. W. Bonfils, nephew of "Bon" and

And Now a Story of Paper Profits

Rich in journalistic tradition, the Denver Post doesn't do too badly in worldly wealth. As with newspapers in general, revenues have declined somewhat in recent years, and higher taxes have nicked net income. Salient figures make the following companison over the last five years:

												1	Advertising Revenues		Net Income		Cash
1938			 						 			. 5	3,059,404	\$1,	591,995	\$1.0	600.000
													3,142,350	1,	631,046		550.000
													3,164,056	1,	515,441		500,000
													3,043,148	- 9	326,204	1,3	350,000
1942				×	 *			 *		 			2,885,257	1,	161,989	1,	100,000

Post business manager, bid \$1,505 a share; and a Denver investment syndicate offered \$1,120 a share.

• Long Way from Control—Miss Bonfil's willingness to pay such a high price is attributed by Denverites to a desire to hold onto and integrate the Post in vindication of the memory of her father—whom she defends vehemently against any detractors—rather than to business reasons. If her goal is control, she has a long way to go. She is still only the third largest stockholder, the Agnes Reid Tammen estate continuing as the largest despite the sale, and the Denver Children's Hospital, through a trust endowed by the Tammens, holding about 20%.

Tammen and "Bon" built big fortunes. Bonfils' totaled about \$14,000,-000 when he died in 1933. Under the partners' "never the scratch of a pen" agreement—they tfusted each other implicitly, though there were outsiders who trusted neither of them—Tammen built an equal fortune, but the Tammens a good half to the Children's Hosp before his death.

• Charitable Trust—Bonfils left most his money to the Bonfils Foundation, be used for "the general good of m kind" under one of the most grandicharters ever written. The trust, through the Bonfils, gives \$50,000 yes to the Denver Community Chest, recently completed and dedicated Catholic church to the memory of parents, has given a building to Den University for an art center, has contucted to the Children's Hospital, Uversity of Colorado Medical Scheetc., and in normal times grants coll scholarships to young Coloradoans.

The Post is run by W. C. Shephe publisher and long-time managing tor under Bonfils, by a contract wh gives him full authority. It maintains lead as by far the largest newspa between Kansas City and the Cowith a 1943 Sunday circulation of 29

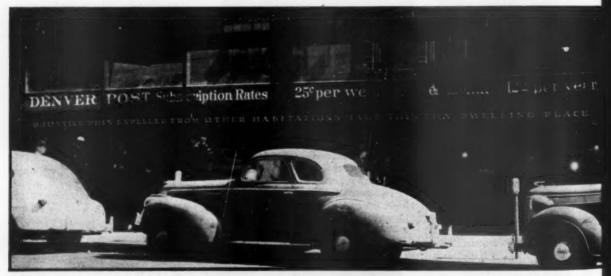
EVE

een al

dustri swer. eric ong th

lesting

29 Pag



Showmen Fred Bonfils and H. H. Tammen, publishers of the bombshell Denver Post, always made a great show of their civic-mindedness. Today an electric-lighted American flag and an eye-bandaged statue of Justice still

stand atop the Post building and emblazoned across its facade are the old mottoes, "O Justice, when expelled from other habitations make this thy dwelling place" and "'Tis a privilege to live in Colorado." But their civicmindedness never went so far as to veal details of Post finances. I week, with the sale of some of the Bonfils stock, the public got a chat to size up the Post in terms of its worth and earning capacity.



he weapons and transport equipment of merica's armed forces are the admiration of our lies, the despair of our enemies. Not just beause the quantity is overwhelming. But because equality is superb. Never before in the history the world has any nation's industrial plant en able to work to such close tolerances or mintain such exacting precision standards!

Salient mpari

00,000 50,000 00,000 50,000 00,000

nens g

dation of m grandi , thro hest, licated ry of o Den s cont ital, U Scho ts coll loans. Shephe iging (ict wh intains newspa

ne Con n of 29

es.

of the

a char of its

2, 19

How is this possible? Air conditioning and dustrial refrigeration are a vital part of the awer. They now provide constant, ideal atmosheric conditions at thousands of key points all long the war production front. And, when peace mes, air conditioning will help to provide mer civilian products at lower cost—plus new highs" in comfort.

In helping solve "conditioning" problems, stringhouse draws upon years of experience in thousands of varied installations. The clusive hermetically-sealed compressor assures money, dependability, long life. Inquiries are wited from producers of war materials and from of twar planners.

Page Boulevard Springfield, Mass.

Plants in 25 Cities . . . Offices Everywhere



COLD TIPS FOR HOT WELDING. Electrode tips used for spot welding show increases in number of welds per cleaning—up to 1000%—when cooled by industrial refrigeration.



QUICK CHECK FOR METALS. Spectrographic analysis of metals saves time, cuts costs. For accurate results this test must be made under constant atmospheric conditions. Another job for air conditioning.



THAN THE THICKNESS OF A SHADOW. To hold variations to minuscule limits, gauges are tested, stored and calibrated at specified atmospheric conditions provided by air conditioning.



TOOLS THRIVE ON COLD CUTS. Controlled - temperature coolant speeds production, prevents undue wear of cutting tools, reduces rejects. Industrial refrigeration keeps coolants cool.

Tuns in John Charles Thomas, NBC, Sunday, at 2:30 P. M., E.W.T.

Westinghouse Air Conditioning

GEARED TO A THOUSAND WARTIME NEEDS



. . . most important* advantages of Buell Dust Recovery Systems

★ A recent survey among Buell users—companies that have had their Buell Dust Recovery Systems in operation for three, four, five, or more years—brought to light a remarkable record for long life and trouble-free performance, freedom from clogging and absence of repairs.

The high efficiency and other plus advantages of Buell Dust Recovery Systems are the result of Buell's exclusive van Tongeren design. The van Tongeren "shave-off," for instance, makes possible a high recovery efficiency without resort to small-diameter cyclones. At the same time, the large diameter of Buell cyclones permits construction of extra-heavy metal and reduces abrasive wear—two important factors in the proved long life and low maintenance cost of Buell equipment.

BUELL ENGINEERING COMPANY, INC. 60 Wall Tower, New York 5, N. Y. Sales Representatives in Principal Cities



In addition, large diameters permit Buell cyclones to be designed with large outlet openings that virtually eliminate clogging and do away with the necessity for constant supervision.

Buell Dust Recovery Systems are used for the reclamation of valuable dusts and the abatement of hazardous dust nuisances by leading companies in every branch of industry.

> Write for factual, 28-page book, Bulletin G-482.

A partial list of well-known Buell users well-known Buell users american potaen a commical corp. By the consideration of the connecticut light a power co. Guates-wright corp. The detect edges continuate edges co. Diwey portland cement co. Inc. Assuran kodan co. Inc. Assuran kodan co. Inc. Assuran kodan co. Inc. Assuran comment co. Dic. Moneanto cremical co. Moneanto cremical co. Moneanto cremical co. Mestle's mer products. Inc. Philadelphia may yard return company socony-vacuum on co. West virginia pulp a paper co.

000; it still ran, until war broke out special train to the Cheyenne not considered a command performance all business and political celebrities vited; it still gives free summer oper and many other Bonfils stunts; and mercilessly belabors political opponen o Not So Belligerent-Nonetheless, shows signs of middle-aged tolerar that would be strange to its founders. has made peace with many old-time ponents, including Mayor Ben Staplete of Denver. (Once, desiring to for Stapleton, Bonfils identified him 45" unidentified man" in a group of pho graphed celebrities according to legen

of pro

he \$3

Big

icoats

he un

ell fo

ent p

\$1.39.

ccour

nise s

this b

Assi

urthe nd u

urtail

en's d

the U

n the

1943

the sa

\$6.75

STA

Even

mach

kets a

liver

their

local

the T

tolls

autor

mach

elty :

time

merly

lusine

Cheaper Textiles

Consumers and retailer cheer WPB decision to loosenu on garments in the lower-price brackets.

Unhappy retailers of popular-price clothing—who are forbidden by Mamum Price Regulation 330 to hand higher price lines than they carried the 1942 base period, and at the santime cannot purchase goods to fit the old price brackets in a market that virtually devoid of low-priced goo (BW—Sep.25'43,p92)—consider Of slow to appreciate their plight.

• Increase Due—Last week, hower they derived a modieum of cheer for the announced purpose of WPB to it crease certain types of infants' and cheen's outerwear, underwear, sleeping garments, and other textile products the low- and popular-priced bracket. The program is hailed with some reliby consumers, too, for war worker bulging bankrolls notwithstanding, confidential survey by the Office of W. Information indicates that 36% U. S. families must cope with inflation incomes frozen at prewar levels.

Relief for children's wear is only starter for WPB's Office of Civilia Requirements. OCR will tackle shot ages from three angles: (1) direct all cation of fabrics, either by request by order (this is designed for overshortages as well as those confined lower-priced lines); (2) simplification and elimination of fancy prints and tike; (3) pressure on OPA to permincreases in ceilings on low-priced lines sufficient to encourage their production. Child's Wear Critical—OCR ob ously considers infants' and children wear most critical.

Underwear is next on the list. He the upward shift of price lines has be only less spectacular than that in wo en's dresses. Back in preinflation 194 65% of pajamas and nightgowns we sold at retail for \$2.25 or less. No only 35% are being made to all

BUY WAR BONDS AND MAKE THE AXIS BITE THE DUST

uch prices. The \$2.26 to \$3.00 bracket which used to account for about 15% of production has swollen to 35%, and the \$3.01 to \$5 bracket from 15% to

ke out i

ne rode

mance fa brities i

ner oper ts; and

pponent

theless, toleranders, l unders, l l-time o

Stapleto to flor

im as "

of phot

o legend

retailer

osen u

r-price

lar-price by May

o hand

carried i

the san
of fit the
et that
ed good
er OF
it.
howeve

PB to i

and chi

sleepin

bracke

me reli

worker

nding,

e of W

36% inflati

vels.

s only

Civili

le sho

rect al

quest

over-

fined lificati

and t

pem ced lin

ductio

R ob

st. He

has be

m 194

2, 19

Big Battle to Come—In slips and peticoats, 60% of the volume is still in the under-\$2.25 lines as compared to 65% in 1941; but while 20% used to ell for less than \$1, only 15% of current production will sell for less than \$1.39. In 1941, price lines below \$1 accounted for 80% of panties and chemise sales; now only 60% are made for this bracket.

Assuming OCR wins its fight against further upgrading of children's wear and undergarments, and the coincident curtailment of the low-price lines, its teally big battle will come in the women's dress field.

• Dress Shipments Up 64%—As an indication of how the volume business is moving into higher-priced lines today, the United Better Dress Mfrs. Assn. recently reported that 4,171,275 dresses in the better-to-medium price brackets were shipped in the second quarter of 1943 as compared with 2,540,754 in the same 1942 period. Only group to fall below this 64% increase was the \$6.75-to-\$8.75 (cost) price group.



STAMPS IN SLOTS

Even war stamps are bowing to the machine age. In 18 A.&P. supermarkets at Detroit, coin machines that deliver 10¢ and 25¢ stamps are making their debut. They're the product of a local manufacturer who had to "sell" the Treasury on issuing its stamps on rolls for the first time. Resembling automatic postage vendors, the new machines not only are adding a novelty appeal, but also are saving the time of checkout cashiers who formerly sold the stamps.

Business Week • October 2, 1943



In many California business and industrial enterprises, Nature works as a valuable partner. Motion picture producers discovered this years ago. Shipbuilders are learning it now.

Year-round moderate weather is only one reason for the rapid growth of California during recent years . . . a growth vastly accelerated by war, but destined to become a permanent, vital factor in our national economy.

Here today is a consumer market of 7,500,000 people . . . where a million factory workers are being paid more than one billion, three hundred million dollars a year.

Bank of America has contributed substantially to the financing of this development of California. With branches in more than 300 cities and towns of the state, this bank is a logical choice of any business executive or banker wanting financial representation or service in this area.

Bank of America

NATIONAL TRUST AND ASSOCIATION

MEMBER . . . FEDERAL RESERVE SYSTEM -- FEDERAL DEPOSIT INSURANCE CORPORATION

Main offices in two reserve cities of California . . . San Francisco - Los Angeles



Blue and gold BANK of AMERICA TRAVELERS CHEQUES are available through authorized banks and agencies. They are acceptable everywhere. Carry them when you travel.



This cylinder is used in a system of fire control in airplanes. It is one of the many Hackney deep-drawn shapes used by war products manufacturers to save time and materials, improve products, and release men and equipment for other work.

Fire in the air, one of aviation's oldest and most dangerous enemies, is effectively extinguished by the release of carbon dioxide, stored in steel cylinders. To play their part in this vital task, the cylinders, like so many aircraft parts, must be light in weight, yet built to exacting strength specifications.

. In developing these lightweight steel alloy aircraft cylinders, the Hackney Cold Drawing Process was employed, thus taking advantage of Pressed Steel Tank Company's forty years' experience in the deep drawing of various metals. Previously, these cylinders were made by machining an alloy forg-

ing to obtain the minimum weight specifications. With the Hackney method, however, the aircraft manufacturers and the war effort benefit by the conservation of critical materials, man-hours and machine equipment.

Pressed Steel Tank Company facilities are now confined to war work. If you are engaged in vital production, it may be that deep drawing can save time for youconserve material and improve your product. Hackney engineers will be glad to work with you-write for details. And for your postwar planning-send for the facts on Hackney Deep Drawing today.



General Offices & Factory: 1493 South 66th Street Milwaukee 14, Wisconsin

> DEEP-DRAWN SHAPES AND SHELLS



Ads in Wartime

Continuing Study of News paper Reading resurveys papers studied four years ago showing war's impact on readership.

The Advertising Research Founda tion, which began its Continuing Stude of Newspaper Reading back in 1939, getting around this year to reexamining readership for papers previous studied, thus providing advertisers with the first authoritative comparison wartime with prewar newspaper reading.
The South Bend (Ind.) Tribune

study, released this week, indicatesdid restudies of the Johnstown (Pa.) Tribune, and the Providence (R. 1) Evening Bulletin-that war has stimulated readership of both advertising and

editorial columns.

• What They Read-Top readership honors in the national advertising field went to an institutional ad with 31% of the men and 33% of the women reading a 990-line Bendix insertion showing a worker's identification badge and headed "Identification of America



INGERSOLL'S TIME

Looking to its postwar markets, the maker of Ingersoll watches is plugging for one of the most revolutionary changes ever made in time measurement. Current Ingersoll promotion (above) advocates for time the same decimal system Europeans and scientists use for measuring quantity, distance, and weight. Days would be divided into 20 hours of 100 minutes, subdivided into 100 seconds. With decimal time, Ingersoll would replace many of the "obsolete" 24-hour timepieces-and count up its profits in American decimal-system dollars.

Bus



No need to argue the importance of a well-conditioned skin to a woman.

Nor—although it is not so much in evidence—the importance of skin conditioning to leather.

Animal skins, after tanning, are fatliquored to keep them soft and pliable, and to guard against drying out and brittleness. Conditioning agents often are added to hold moisture and give a further softening effect. The trouble is that some conditioners absorb moisture so readily at high humidities that when they are used in any appreciable amount, leathers become limp and "raggy" and tend to stretch.

Atlas, approaching the problem synergistically*, suggested an Atlas product, Arlex, as a skin conditioner. Arlex gives off a minimum of moisture at low humidity, but absorbs much less at high humidities. It stabilizes as it conditions

so that surface areas of the leather do not expand and the leather retains its quality. Moreover as a plus-value, Arlex produces a greater softening effect.

Atlas' synergistic approach to production problems has been used to produce striking results. Within the scope of our activities, we would like to engage in a synergistic discussion of problems that may confront you. Shall we make a date?

*Synergism—a growing habit in American industry. Men bring problems and ideas together so that minds "click" to produce a result that is far greater than the sum of the ideas expressed—making 2 plus 2 equal 5, so to speak.

love Per II S Pat Of

ewsapers wing

Study 939, i

xamina viously is with on of ading ribune tes—as (Pa.) R. I.) stimu-

ership g field 31% comen ertion badge

, the

plug-

onary

SHIE

otion same scien-

, dis-

be di-

With

hour

rofits

1943

IS.



ATLAS

POWDER COMPANY WILMINGTON 99, DELAWARE Offices in Principal Cities

Industrial Explosives • Industrial Finishes • Coated Fabrics • Acids Activated Carbons • Industrial Chemicals • Ordnance Materiel

Copyright 1943, Allas Powder Company



THE SNOW-CAPPED PEAKS are a mirage visible only to the New York Central passenger who boarded a Chicago flyer in steamy Grand Central two hours ago. But why is the air in his car so cool and comfortable—in midsummer?

1. Because, during this trip, Sturtevant Air Conditioning Equipment circulates through this 16-cat train a quantity of cool, dry air which, if it could be weighed, would total 1339 tons. To visualise this figure, imagine a column of air which would fill an average passenger engine tender and extend 30 miles in the air!



2. In a model railway car set up in the Sturtevant laboratories, Sturtevant has made scores of exhaustive tests Many years before railway air conditioning became general, Sturtevant pioneered with the first system, which has resulted in making 8.432 railway cars comfortable.



3. Now.WPB says "no new railway air conditioning for the duration," So Sturtevant launched a complete program of maintenance, including inspection schedules and servicing tags, to help railroads, struggling with untrained help, to keep existing air conditioning equipment running, passengers comfortable.

Air at Work



HOW MUCH AIR TO BRING COMFORT TO YOUR POST-WAR CUSTOMERS?

Engineered AIR... to ventilate, heat, convey, control dust and fumes, or burn fuel more economically... will make the difference between profit and loss for many a post-war venture. Somewhere along the line... more efficient, more compact air handling equipment may work wonders for you. Sturtevant's experience of yesterday and today will be tremendously helpful in providing the answer.

B. F STURTEVANT COMPANY Hyde Park Boston, Mass.



Anger." Second place went to a 20th Century Fox description of "Heaven Can Wait"

Among local advertisers, a Sears, Roebuck page got the most attention from men (35%) while a local department store attracted the most women (64%).

• How Men and Women Compare-Feminine readership was higher for all kinds of advertisements than it was in 1939: 92% read at least some advertising compared to 90% in '39; 61% read some national copy whereas only 54% had been attracted in 1939; readership of local advertising rose from 88% to 90% and department store from 59% to 79%.

Men in South Bend are paying more attention to national and department store advertising than they did in 1939, less to local. Readership of national advertising rose from 28% to 44%, department store from 31% to 39%; and local readership fell from 67% to 60%.

In 1939, "War Threatens South Bend Travelers" and "Tom Dewey Visits Mother in Owosso, Mich." got the most attention from women readers. The ensuing four years, according to the foundation, have not diverted women from their search for items of local interest. War news is read by 66% of the men, less than half of the women, according to the South Bend survey.

• Financing the Research—Papers bear part of the \$3,000 average cost of a survey; the foundation, jointly sponsored by the Assn. of National Advertisers and the American Assn. of Advertising Agencies, foots the rest of the bill.

Dr. George Gallup's pioneer agency, the Publication Research Service, makes surveys for the foundation which distributes reports to 1,350 members of sponsor organizations and the American Newspaper Assn.'s Bureau of Advertising.

ney (

nce wi

But it c rained, r offse

fice of

Now, t

ion Pla

help

efore i

A west

xampl

due to

Liver Trouble

Government opens second attack on those little pills with the famous trade name. Company promises a fight.

After studying its chances for over two years, the Food & Drug Administration seized a large shipment of Carter's Little Liver Pills in New York last week end. The libel on which the seizure was made states the government's contention that the product has no therapeutic efficiency so far as the liver is concerned.

On this basis, Food & Drug charged that use of the word "liver" in the trade name and use of the word as part of the advertising claims appearing in the labeling are misleading. No question was raised on the therapeutic efficiency



"Honesty Engineering!"

WHEN trusted emloyees help themselves to your
nney or merchandise, fidelity insurnee will repay your financial loss.
but it cannot make good your loss of
mined, hard-to-replace manpower,
roffset the blow to morale in your
fice or plant.

ising

bill, ency, vice,

hich

bers

mer-

of

ond

vith

om-

over inis-Car-

last seizent's no

liver

rged

rade t of the

tion

943

Now, through its Personnel-Protecion Plan, the U. S. F. & G. is ready whelp you stop employee dishonesty efore it starts!

A western packing company, for nample, was having so many losses ite to employee dishonesty that it faced the loss of fidelity insurance protection. But when it adopted the U. S. F. & G. Personnel-Protection Plan, dishonesty losses dropped more than 80%.

This new plan of "Honesty Engineering" helps reduce employee dishonesty in much the same way that safety engineering and fire prevention work have reduced accidents and cut fire losses for American business.

Based on long experience in the bonding field, the U. S. F. & G. Personnel-Protection Plan not only insures you against loss through employee dishonesty but: (1) discloses undesirable personnel and prevents waste in training; (2) through tested methods helps keep good employees from going wrong; (3) helps employers eliminate leaks and pitfalls and acts of carelessness which often lead to employee dishonesty.

Your U. S. F. & G. agent will be glad to give you more information about how the Personnel-Protection Plan helps you keep your employees by keeping them honest. Consult him.

Branch Offices in 43 Cities - Agents Everywhere

U.S.F.&G.

UNITED STATES FIDELITY & GUARANTY CO.

FIDELITY & GUARANTY PIRE CORPORATION

HOME OFFICES: BALTIMORE, MD.

Consult your insurance agent or broker



as you would your doctor or lawyer

Free Enterprise

WE MUST ACT TO PRESERVE IT

Like a leaf floating downstream, we are being carried along toward a new and uncharted economy. What this new economy will be like will depend, to no small extent, upon what industry does or fails to do during the coming months. Time is short; in fact, we may suddenly find ourselves standing on the threshold of a peace economy with our war boots still on our feet.

While bending every effort to win the war, we cannot afford to be caught unprepared for the peace. As Prime Minister Churchill said at Harvard, we are "bound, so far as life and strength allow and without prejudice to our dominating military task, to look ahead to those days which will surely come, when we shall have finally beaten down Satan under our feet and find ourselves with other great Allies at once the masters and the servants of the future." Unless we do look ahead, there is danger that we may become neither the masters nor the servants, but merely the victims, of the future.

The war has quickened our ailing economy and opened our eyes again to the possibilities of peace-time plenty. But it has also brought great dislocations of labor and capital; it has led to abnormal patterns in prices and income distribution; and it has created inflationary pressures with enormous potential powers to injure or to help us in the transition from war to peace.

The pattern of life in postwar America will be just what we make it. All of us will have a hand in shaping that pattern, but business men will have a special responsibility in the reconstruction. As employers of labor and capital and as enterprisers assuming the risks of new ventures, they will have to plan and carry out the conversion from war work to full peace-time production. Because of their key role, business men have a special opportunity to discover, and to help others to understand, the conditions which are necessary if they are to do their job satisfactorily.

This is a narrow view of postwar problems but it a central view, because no one condition is more to the health of the world than a high level of prod tion and employment in the United States. We cam hope to lead the world out of economic chaos if we to put our own house in order. If we fail to adjust domestic economy, we may destroy Adolf Hitler, we will not destroy the germ that breeds "Hitlers." we do not maintain the production necessary for s porting a large volume of imports and exports, then plans for international monetary stabilization, for go relations with our neighbors, for rehabilitation stricken countries, and for strengthening the democra bulwarks against dictatorship are all likely to come grief. We must demonstrate our capacity for world le ership, or be content to follow the leadership of other f our gogues, tand of prace conon in hand

ur per

re bro

rom 1

trenuc

nd or

nvolve

he op

real se

mard o

inkeri

out wr

If we

nomic

escape.

We

the wa

the wa

worse !

to pro

Ame

of pol

the ne

accom

compe

produc

laving

achiev

ness le

tell us

"less g

I wi

this is

The prospects for achieving a sound and vigore economy in the United States are not so good as tow rant complacency on the part of men genuinely intested in free enterprise and the political freedoms in dent to it. We have yet to find means to utilize to vast and abundant resources for the good of all. I have yet to learn how to keep men from the terrifexperience of unemployment and the fear of we which makes them willing to sacrifice freedom a opportunity for almost any promise of security. I have yet to reconcile the conflicting interests of lab agriculture, and business so that they can work gether effectively. We have yet to learn how to the fever of inflation and cure the palsy of depression

When we were attacked at Pearl Harbor, we realist our physical peril immediately and united in a trem dous common effort against the enemy. The onset economic perils is less obvious. No bombs will sign the deterioration of the private enterprise system, the extension of regimentation, the further control of by

less by government, and the concentration of political lower in less and less responsible hands. If these things hould befall us, they will come insidiously while we re preoccupied with self interests and oriented by oppular misconceptions. If the freedoms of the individual shrivel as the state grows in power, it will be because the individual is too indifferent or complacent to concern himself seriously with economic problems. If our people are misled by false prophets and demaggues, it will be because business men did not undertand economics, because scholars were too ignorant of practical affairs, and because we failed to produce conomic statesmen of sufficient stature for the task in hand.

Thinking is hard work. Thinking about things outside pur personal experience, about economic processes that re broader and in some fundamental respects different from buying and selling or running a business - is trenuous mental labor. Thinking straight about probems that are beyond our personal and immediate status nd our pocketbooks, thinking about problems that prolve nation-wid: production, nation-wide employment and nation-wide buying power - in other words he operation of our entire economic system — involves cal self-discipline. Yet there is no other way to safemard our freedoms. We cannot rely on trial and error; inkering takes too long; social experiments which turn out wrong can be undone only at great cost - if at all. If we proceed blindly, we shall flounder into an economic and political morass from which we cannot

but it

le cann

if we !

djust o

itler; b

itlers."

for s

then t

for go

tation

emocra

come

orld le

of othe

vigoro

as to w

ely int

oms in

tilize (

all.

e temi

of w

dom a

nity.

of lab

work

to che

pressi

e realiz

trem

onset

ill sign

tem, t

l of bu

r 2,

We floundered badly all through the Thirties, until the war lifted us temporarily to higher ground. When the war boom is over, we shall be back floundering worse than ever unless we find a solid road along which to proceed.

America has grown rich and strong under a system of political and economic freedom. Opportunity and the necessity of self-reliance have brought forth great accomplishments. The hope of profit and the spur of competition have urged men on to find new and better products, new and better methods, and to risk their tavings in pioneer investment. Never has a country achieved so high a standard of living and afforded so large an opportunity for the individual man and woman. It is not surprising that some distinguished business leaders, looking back over their own experience, tell us that everything will be all right if only there is "less government in business."

I wish the solution were as simple as that. However this is only part of the answer. It is becoming in-

creasingly clear that industrial capitalism as we know it contains within itself certain fundamental weaknesses which can lead to its destruction if they are not counteracted. No democracy can survive when twenty to thirty per cent of its workers cannot get jobs. That happened here in the Thirties. For years on end, despite fumbling efforts at recovery one out of every five workers was denied a chance to earn a living in private business. We shall never again have such mass unemployment as occurred in the bottom of the Depression. because the government will take it upon itself to create jobs if business cannot offer them. Whenever that happens, however, the area of private enterprise will be reduced and that of government will be expanded - and the concentration of political power will be increased. This is the challenge we business men face today, and ours is the first opportunity at finding the solution.

The crux of our economic problem is unemployment. Unless there are jobs for ninety to ninety-five per cent of those who are able and willing to work, there will be widespread fear and lack of opportunity, which will drive labor unions, agricultural groups, and business interests to take self-protective measures. Such measures are certain to restrict production, stifle progress, and imperil our democratic way of life. Not all our problems will automatically be solved if we learn how to avoid mass unemployment, but they will at least then have a good chance of solution.

And so American businessmen face a great responsibility! We will have to find the answer to a great many momentous questions. We will have to delve into problems that cannot be solved by precedent.

Looking backward to these times, future historians are likely to say that here we Americans stood at the crossroads and, consciously or not, made our choice between a system of private enterprise and personal freedom and a system of collectivism and regimentation.

It is particularly appropriate, therefore, as the problems of our time take shape and as events rearrange their order and importance, to appraise the steps we are taking and point the way we are going. It is my plan to present such analyses from time to time to the one-and-a-half million readers of McGraw-Hill publications.

Show H. W. haw. N.

President, McGraw-Hill Publishing Company, Inc.



Ever stop to think about the magnitude of simple forming operations that would not justify the installation of heavy forming rolls, in the construction of a fighting plane? Hundreds of them—and our production schedules of a plane every few minutes rely on capable machines to keep assembly lines supplied.

Buffalo Aircraft-Type Bending Rolls, although designed for circular bends and segments, are already veterans in this phase of airplane construction. These versatile tools, as fast and accurate as they are easy to operate, measure up to the rigid production requirements of Consolidated Vultee Aircraft Corp. as well as many other leading manufacturers who are helping make Air Supremacy a victorious reality.



BUFFALO FORGE COMPANY
458 BROADWAY BUFFALO, NEW YORK

Branch Engineering Offices in Principal Cities & Canadian Blower & Forge Co., Ltd., Kitchener, Ont.

of the product when used as a laxative.

• Double Attack—The company is expected to fight the charges through the courts. Several months ago, The Federal Trade Commission issued a complaint against advertisements for the product on substantially the same grounds used by Food & Drug to attack its labeling (BW—Jun.12'43, p90). FTC's case will be tried by the commission itself, subject to mild court review, but Food & Drug's case necessarily must be tried before a judge and intry.

In a fighting reply to FTC's complaint, the company indicated that it has collected its own scientific evidence to prove that the product does have a therapeutic effect on the liver. In both cases, the company will be fighting to save one of the most prominent and oldest trade names in the proprietary drug industry. If the government wins in either case, the word "liver" will have to be stricken from the name.

Candy Kept Cool

Whitman is booking orders for postwar delivery of cabinets to maintain chilly temperature for sweets. Sales respond.

One of the candy trade's oldest problems, that of keeping chocolates fresh and attractive the year round, has been solved to the satisfaction of Stephen F. Whitman & Son, Inc., through development of a special refrigerated cabinet to be distributed to dealers after the war, or whenever the necessary materials become available. Orders against that indefinite date are now being booked by Whitman's.

• Sales Stimulator—The idea originated about two years ago, and more than 1,200 cabinets were built by the Advertising Novelty Mfg. Co. with a special Westinghouse sealed refrigerating unit. These were placed in stores throughout the country, and their sales of Whitman's assortments jumped 50% to 350%. Just when everything looked bright, however, cabinet production was halted by the war.

Since then, further research has uncovered ways to improve the cabinets. New ones will have a white porcelain finish, will stand counter-high with display shelves on top lighted by a fluorescent fixture, and will measure approximately 29x72 in. An inside temperature of 65F to 68F will be maintained, as in the factory at Philadelphia.

 Changed Color—Candy remains fresh longer and sales hold up in hot weather, instead of tapering off as in the past because of customers' antipathy to soft chocolate. Some druggists tried to overcome this by placing boxes in the re-

LIQUOR SALES BY STATES

choco

Whitm

ing co

npanie ting li

first

DLA

The fa

la are

nes and

doe

wing 1

nts to

la" in

ued in

nth U. Standar

est sof

onsen

name

to pi

d Coca

founta 1942

the 1

word ng, na ludge

vever.

om t

that 1

same

ng for

a loan

Man for man, Washington, D. C., can show a record of the highest liquor consumption of any section of the country, according to 1942 statistics released by Allied Liquor Industries. But that statistical record is subject to important qualification.

Many people living outside the District buy their liquor supplies in Washington, a situation which the sales and population figures cannot take into account.

In addition, the District is 100% urban in character and liquor consumption is generally higher in urban than in rural districts.

States in which liquor distribution is handled entirely through state-operated facilities (shown by asterisks) tend to fall, by and large, toward the bottom of the per capita consumption scale.

	19421	1942	
	Liquor	% Increase	1942
	Con-	over	per
	sumption	1941	Capital
Wash., D. C.	3,558	+16.4	4.33
Nev	398	+30.1	3.09
Conn	4,476	+22.6	2.52
Calif	13,356	+17.3	1.86
Del	511	+ 8.4	1.85
Mass	7,486	+11.7	1.74
N. J	7.198	+22.4	1.70
Minn	4,515	+24.8	1.69
Md	3,216		1.69
In	12,799	+ 0.1	1.60
N. Y	20,320	+ 8.5	1.57
Mo	5,520	+22.9	1.47
*N. H	690	+13.0	1.46
*Wyo	337	+ 8.0	1.45
*Mich	7,853	+15.6	1.41
Neb.		+26.8	1.41
Wis.	4,309	+11.1	1,41
*Mont	733	+ 1.9	1.40
	2,718	+13.1	
Fla	9,643	+18.8	1.39
*Ohio			
Penn.	13,245	+15.2	1.36
R. I	977	+12.8	1.35
*Wash	2,316	+21.1	1.32
*Ore	1,404	+20 9	1.31
*Va	3,654	+27.3	1.30
Ariz	578	+21 6	1.24
*Me	942	+15.0	1.13
Colo	1,188	+14.9	1.09
N. D	631	+ 8.0	1.07
S. D	624	+10.1	1.06
*W. Va	1,948	+ 7.7	1.05
Ind	3,627	+ 3.1	1.04
*Vt	349	+10.6	1.01
Ga	2,933	+35.4	0.95
*Utah	521	+ 8.6	0.94
*Iowa	2,262	+12.4	0.92
*Idaho	437	- 4.6	0.91
La Ky	2,168	+28.4	0.89
Ку	2,422	+ 7.6	0.88
S. C	1,582	+21.0	0.83
*Ala	2,407	+53.5	0.82
N. M	396	+ 5.9	0.81
Tenn	2,132	+20.5	0.73
Ark.	1,282	+31.8	0.65
Tex	4.233	+ 1.9	0.65
*N. C	1,568	+33.7	0.45
A. C	1,000	100.0	0.10
* 1/2021-1-	- elekan		
* Monopoly		od Inne 3	n that

*Monopoly states.
(1) Fiscal year ended June 30, thousands of gallons.

(2) Based on estimated civilian population, May 1, 1942,

erators they use for biologicals, but | chocolates changed color.

Whitman's bears the \$300 manufacing cost but requires a returnable of deposit from dealers. Orders acnanied by checks are placed on the ting list. When equipment is avail-, first come will be first served.

DLA NAME DEFENDED

ATES

ington, of the

of any cording by Alut that

to im-

ide the

upplies

which

figures

rict is and linerally

ral dis-

istribuhrough own by

l large,

ne per

1942

4.33

0.92

0.91

0.88

0.83

0.82

0.81

0.73 0.65

popula

2, 19

The fact that Coca-Cola and Pepsiare at peace in their dispute over nes and trademarks (BW-Sep.11'43, o doesn't mean that Coca-Cola is wing unlimited sway to anyone who his to put out a soft drink with ha" in the name. A typical suit was sed in Denver last month, before the hth U. S. Circuit Court of Appeals. standard Bottling Co., the region's est soft-drink bottler, in 1925 signed tonsent decree agreeing not to use name "cola" in any soft drinks and to put out a beverage that resem-Coca-Cola in any way. With cola nks, including Pepsi-Cola, blooming fountains and in ads all over since 1942 Pepsi-Cola armistice, Standard at into the U. S. District Court and the 1925 decree modified so that word "cola" could be used in adverng, name, and trademark. udge J. Foster Symes stipulated,

wever, that all proposed designs and ertising be submitted to him priely before public use, so he can be e there's no similarity to Coca-Cola

from this Coca-Cola appealed, claim-that both the law and the facts are same as in 1925, and that if it was ng for Standard to put out imitative aks in 1925, it is still wrong.

EY BOUGHT OUT THE BOSS

oda fountain clerks, janitors, and er employees of Llewellyn's, Phila-phia's bankrupt 85-year-old drugstore in, came to work one day last week found they owned the five stores. they had to do was perform their dar duties and await an explanation how they were going to pay their n of the \$120,000 purchase price. he bid was made for them by a p of 30 employees, chosen from a of 120, whose length of service tes up to 26 years, to top an offer the in U. S. District Court by a New it syndicate. Judge Guy K. Bard and the sale after receivers he apted July 9 failed to formulate a ganization plan.

William B. Kean, for many years

pany supervisor, has been elected

lent. He announced that by virtue loan, \$66,000 had been paid in \$10,000 will be paid over a two-period, and the balance of \$44,000 be covered by an issue of six-year

less Week . October 2, 1943



more "power punch" in war production ... by delivering maximum developed-horsepower to machines making the battle equipment that is so vital to Victory. The ruggedness of Dodge bearings fortifies their fine design and precision construction . . . they have the stamina to stand the punishing service of 'round-the-clock schedules in war or peacetime production. Their thoroughly dependable performance has proved this in many of America's industrial plants, large and small, where Dodge power transmission equipment has been a major power

hours of operation on jobs for which they are adapted. Their sealed-in lubrication carries them through 50 million or more revolutions without re-lubricating. Indestructible steel-seals prevent loss of lubricant or entry of dirt... assuring longer bearing life.

With Dodge bearings, clutches, pulleys, Matched Quality D-V Drives and other Dodge power transmission units, the nearest Dodge Distributor can help you get the right drive for every job, in your present production or in plans for future power efficiency.

DODGE MANUFACTURING CORPORATION, Mishawaka, Ind., U.S.A.

LABOR

Temporary Truce

Department store pacts signed after long controversy in Pittsburgh; 15-day clause is not included in m. of m.

The ink was hardly dry on the signatures to the 1942-43 collective bargaining agreements between a council of A.F.L and C.I.O. unions and five Pittsburgh department stores before it was time to think of the 1943-44 contract conferences which are sure to inherit some of the unfinished business of the

past year's discussions.

• Escape Clause Dropped-During the negotiations just ended, the National War Labor Board wrote history by departing from its custom of allowing members 15 days in which to withdraw from a union when a maintenance-of-membership clause is granted. The board directed that clerks of Kaufmann's store who were members of the C.I.O. United Department Store Employees and the A.F.L. Retail Clerks Protective Assn. on June 11 must maintain their membership in good standing for the life of the contract.

Dissatisfaction over this union se-curity clause and NWLB's wage award, which the unions contend nullified their efforts to stabilize clerks' pay in the stores, was instrumental in delaying signing of the contracts until about a month before most of them expire (Nov. 1). The contracts contained NWLB directives for pay increases ranging from 45¢ to \$2.05 weekly and put into writing union security clauses which formerly were vest pocket agreements between the unions and the stores

(BW-Jul.3'43,p100).

• A Seventh Union—Signing the contracts covering about 5,000 of the 9,000 employees was a council of four A.F.L. and three C.I.O. unions which formed a single bargaining unit after a strike in some of the stores last November (BW-Dec.19'42,p100). The A.F.L. Stenographers, Bookkeepers, Typists, Accountants & Assistants Union, representing 600 office workers, joined the council two months ago. Original unions in the council in addition to the A.F.L. and C.I.O. clerks were the A.F.L. restaurant workers and building service employees and the C.I.O. furriers and clothiers.

Union leaders hope the council will be enlarged eventually so as to cover all personnel. Their aim is a master contract with the Labor Standards Assn., the bargaining unit representing Kauf-

mann's, Rosenbaum's, Joseph 'Horne's, Gimbel's, and Frank & Seder's. Numerically, the major group of employees outside the council is the warehouse-men, represented by the A.F.L. Teamsters.

• Sop to the Unions-NWLB's surprise action in scrapping the 15-day escape proviso in the maintenance-of-membership clause apparently was done as a sop to the unions, which had opposed Referee Charles Moos' recommenda-tions for a standard m. of m. (BW-Mar.20'43,p110). Union spokesmen for Kaufmann's clerks contended they were entitled to a replacement arrangement enjoyed by clerks in the four other stores, where new clerks, after a 60-day probationary period, must join the

The unions also quibbled over the board's approval of a \$1.10 weekly wage increase for A.F.L. clerks at Kaufmann's

CLINIC ON WHEELS

Free tuberculosis examination of Southern California war plant workers may be pointing a trend toward such tests in future hiring routine. Fast, low-cost X-ray methods used in the Los Angeles Tuberculosis & Health Assn.'s trailer-housed clinic (below) make mass tests feasible. The roving unit is now servicing plants where large numbers of workers have asked to take the simple chest X-ray (right). Individual reports are given each worker and positive cases are filed with state health authorities; but jobs are not jeopardized. Of 6,500 persons tested thus far, 1.5% are tuberculous.

after Moos recommended that only C.I.O. clerks at Kaufmann's be in the \$1.10. The union leaders of object to the board's gratuitously in the raise to the A.F.L. clerks to e nate an intrastore inequality, but board was criticized for giving no m increase to clerks at Home's Gimbel's.

• Irked by Differential-In 1941, K mann's granted wage boosts that gits clerks from a dollar to two dollar week more than other stores paid. W the contract negotiations opened fall, the unions sought to eliminate wage differential between the sh But NWLB, disregarding the unit efforts to stabilize clerks' wages, creased the wage differential by \$1.10 boost at Kaufmann's. The uni accused the NWLB of creating un labor practices.

The controversy was intensified with Kaufmann's made the pay boost reactive to Sept. 15 (expiration date some contracts) for nonunion employ and to Nov. 1 (expiration date of clerks' contracts) for union workers.



Atl

rorke

ill ma

ecaus

tudio

For

oung

valve a

ble by n adv

fer t by the

of pipe

RIDG





"YOU KNOW VALVES, BUDDY!"

CERTAIN percentage of the A thousands of untrained war workers come up fast. Some of them will make foremen, managers, owners ecause they are serious and tudious.

no w ne's

ne sto

te of

THE

bur Purci

ISTW

Nis Chest 18

US THEON

r 2,

For example-when such oung men tackle a valve application or replacement, they whise to operate "by guess and by gosh." They select the right valve and prevent future trou-We by studying the job through in advance.

As a further precaution they efer to suggestions prepared by the National Safety Coun-d. Thus, the man in the picture, while screwing a length of pipe into a valve, holds the

valve with a second wrench to guard it against twisting when the joint is tightened.

These men soon discover that

National Safety Council Offers These Suggestions on Valve Safety

- 1. Install valves which are equal to the job in design, materials,
- 2. Operate valves slowly or use by-pass. Valves should be locked if there is any possibility of unauthorized manipulation which would lead to accidents. Be sure to lock valves leading to boilers in which men are at work and valves on lines where repairs are being made. Place warning signs near such valves.
- 1. Don't remove valve wheels from valves particularly those at danger points calling for emergency operation
- 4. Don't turn a valve stem with a wrench. This may make it ssible to operate the valve either by wrench or wheel.
- 5. Inspect frequently valves subjected to unusual strain from excessive pressures and temperatures and valves weakened by corrosive gases and liquids.

Reading-Pratt & Cady valves combine built-in safety with dependable performance and long life. These good qualities unite to reduce valve

accidents, replacements and delays.

Reading-Pratt & Cady Valves are among the many products we build for Industry, Transportation and Agriculture, essential in peace, vital in war.

The American Chain & Cable Company is happy to cooperate with the National Safety Council in its nation-wide campaign to "Save Manpower for Warpower"-which is now being conducted at the request of President Roosevelt.

In Business for Your Safety

AMERICAN CHAIN COMPANY, Inc.

INIDGEPORT, CONNECTICUT In Canada—Dominion Chain Company, Ltd. • In England—The Parsons Chain Company, Ltd., and British Wire Products, Ltd.

Maraft Controls, American Chain, American Cable Wire Rope, Campbell Cutting Machines, Ford Chain Blocks, Hazard Wire Rope, Manley rage Equipment, Owen Springs, Page Fence and Welding Wire, Reading Castings, Reading-Pratt & Cody Valves, Wright Hoists and Cranes

kiness Week • October 2, 1943



board directive made the retroacts date Nov. 1 for all.

• Continuous Performance—The or tract negotiations virtually are a tract negotiations virtually are a tract negotiations virtually are a tract negotiation of the logical ences open this month on the logical agreements. About the same issues in the trotted out, council leaders indicate a request for higher wages; time and half for overtime instead of the preediment and a third; women to be paid to same rates as men when they do eas work; and elimination of the current is them which permits the stores lengthen six weeks—in the business is lengthen six weeks—in the business is the stores of the prediction of the current is lengthen six weeks—in the business is lengthen paid for the extra hours.

Boeing Surprised

Company, desperate to labor three months ago, land 1,538 workers in big drive and may attract too many.

At the beginning of summer one the most critical labor-supply crisis in fination was acknowledged to be at Boing Aircraft Co., Seattle. The situation became so acute in July that the W Dept. ordered the cancellation of war out of the contracts in the Seattle as in an effort to get more aircraft work (BW-Jul.31'43,p78).

(BW-Jul.31'43,p78).

• They Come Too Fast—Now, ho ever, it is not improbable that Boen will get even more job applicants the it can possibly use. In the period fro Sept. 1 through Sept. 25, a net gain 1,538 employees was recorded, at there are signs that applicants will it crease in number by a substantial gree. Boeing had indicated that it immediate need was for 3,000 worker its ultimate need—9,000.

The changed situation has con about as a result of a combination factors: (1) an intensive campaign of ried on since July 15 by the Seatt Chamber of Commerce to focus fi attention on the Boeing problemneed for more workers to meet increase War Dept, schedules for Flying Fo tresses; (2) a series of steps taken by company that have reduced turnover a marked degree, such as the granti of ten-minute rest periods on all shift the extension of smoking privileges, provement of transportation faciliti and the installation of numerous ployee services in the form of bill-payi facilities, branch banking, etc.; and National War Labor Board approval Sept. 4 (signed Sept. 25 by Econom Stabilization Director Fred Vinson) a job re-evaluation program involvi upward wage adjustments for Bocis workers. In addition, a Boeing progra of opening branch plants in other con munities of western Washington

MIR

IT TAKES 100 MEN TO LIFT

troact he or

ite

у.

ed.

aign ca

ocus fi lem-tl

ncreas

ing Fo n by t

nover

grantii 11 shif

eges, i facilitie

ous et

II-pavi

and

roval conor

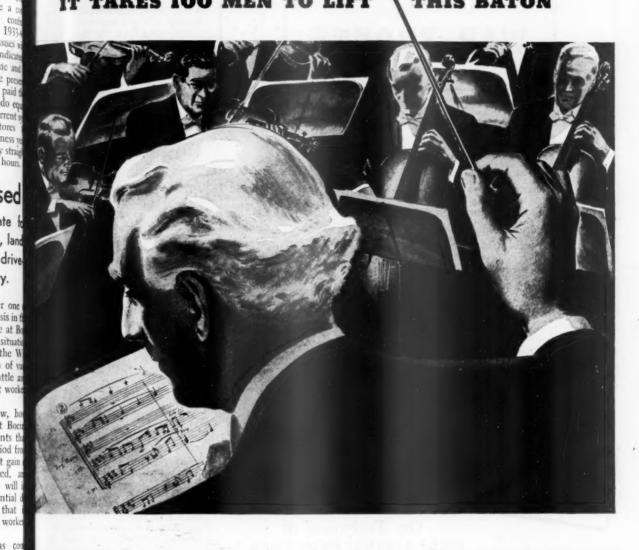
nson) nvolvi Boci progra

ner co

gton

2, 194

THIS BATON



ECONDUCTOR waves a little stick and, e magic, entrancing music cascades ough the concert hall. With superb arty.hebrings outevery nuance of the symmy, from light lilting run to crashing scendo. The world calls him a master. But even the genius of a symphony eductor could not make a baton auhe The music that enraptures the dence flows from the hearts and talents the orchestra.

In the industrial world, too, there are ne who must do the less spectacular 8. The Joyce Machine Company is an

example. Parts, sub-assemblies and machines built by Joyce are playing a major role in scores of great war plants throughout the country, solving difficult production problems, achieving new standards of speed and efficiency, helping to draw nearer the day of Victory.

From the Joyce plant, too, flows production quantities of sub-assemblies for gun mounts and other vital precision parts for implements of war, fabricated and assembled by Joyce craftsmen. The highly developed skills and experience of Joyce engineers and craftsmen are being

utilized by the Army, Navy, Maritime and Aircraft services-as well as by the nation's largest industrial organizations. This same skill and experience can be helpful to you-in meeting present war contracts-in solving postwar production problems. A Joyce representative will be glad to explain in detail the unique advantages we can offer.

RIND THE MAN | BEHIND THE MAN | BEHIND THE GUN

Machine Company MANUFACTURERS OF PRECISION PARTS FOR ALL KEY INDUSTRIES

WAR FRONTS

ecause of the constantly increasing number of men on the different fronts, it is necessary for us to steadily increase our production and to make sure our men are NEVER in need of supplies of any kind.

Our Government has entered into contracts with American industry to pay for the labor and material to produce munitions of war.

It is our privilege to help pay for these munitions through the best investment in the world-

WAR BONDS

INTERNATIONAL BUSINESS MACHINES CORPORATION



Today every executive is alert to the necessity of better techniques in dealing with others for the furtherance of the common objective. Here is a new special edition of this sound and stimulating manual for every man who wants to improve his methods of getting along with others

The Technique of EXECUTIVE CONTROL

Price, only \$2.00

By ERWIN H. SCHELL, Professor of Business Management, with problems of: Massachusetts Institute of Technology

_	rest	ons	ibil	ity

- -discipline
- -executive stimulation -constructiveness
- -self-assertion and selfexpression -leadership
- -justice
- analysis of labor require-

Shows how to deal

- --introduction of the new employee --difficulties with subordinates
- -opposition
 stubborness
- -disloyalty
 -dishonesty
- -immorality
 -irresponsibility
- the agitator
 difficulties with superiors
 and associates

-responsibility for errors

See it 10 days on approval

THIS COUPON

Shows that executive technique is not a mysterious sixth sense, but a quality that can be definitely developed by anyone who will follow the simple methods laid down in this manual. Defines the tools of executive control; outlines the factors involved in the successful handling of others; gives practical and usable methods for getting a maximum output of work with a minimum amount of friction. In this edition a new chapter discussing the influence of the current emergency upon the various techniques of executive control has been added.

MeGRAW-HILL BOOK CO., 330 W. 42nd St., New York IS, N. Y. Send me Schell's The Technique of Execu-tive Control, War Production Edition, for 10 days' examination on approval. In 10 days I will send \$2.00, plus few cents post-are, or return book postpald. (Postage paid on cash orders)

City and State.....

helping the over-all problem, as War Manpower Commission permis for the company to recruit worker several outside areas.

• Big Show Planned-The fear of Boeing will get more workers than needs stems from the fact that the cruiting campaign, rather than tapen off, actually is just getting into swing. Plans revolve around a Army show which is to be held in University of Washington stadium attle, on the night of Oct. 3.

This show, which will feature 1.3 troops and more than 100 combat hicles, plus hundreds of pieces of of equipment, will be staged by the W Dept. The show is billed as "Sea Attacks." By the time it has ended its purpose is fulfilled, the 40,000 sons expected to attend will have b impressed with the fact that m equipment is needed for the fight forces, and that Boeing Flying tresses head the list.

• Invitation to Work-Boeing emp ment cards will be passed out to all attend the show. Moreover, the pla to have similar cards distributed f house to house in the city, begins the day after the show, and commun civic, and women's clubs will be ca upon to fill quotas of new Boeing w

Union Prospers

Steelworkers experien big wartime rise in dues w total membership approachi the million mark.

The second public financial report the C.I.O. United Steelworkers of An ica revealed a wartime boom for inco increased membership, and an exp sive attempt to unionize the last major holdouts in the steel indust Weirton Steel Co. and American R ing Mill Co.

• Net Worth Rises-The 60-page at recorded net income for the six mo ended May 31, 1943, of \$871,328, net worth of \$2,646,233. The first lished financial statement, issued February (BW-Feb.27'43,p60) covering the seven months ended 30, 1942, revealed U.S.A.'s net inco as \$301,187 and its net worth as 774,905

n swee

. with

altitue

Not e

That's t ready

vill be

the ca

eping t

your c

The pr

n. En

ng befo

ntrol s

m who

less V

Probably second only to C. United Auto Workers in size, the st union membership swe workers' from 726,625 to 745,000 in the months. Including 200,000 member the armed forces, the membership almost a million.

• Dues up, Fees down-The take fi the membership was \$3,626,879 in and \$362,820 in initiation fees,



Even at 20,000 feet...



... you'll enjoy "low altitude comfort" in AiResearch-pressurized cabins

Imagine yourself leaving an airport at sea level . . . climbing swiftly to 20,000 feet,

m, as permi workers fear (rs than nat the n taper into d

eld in

ving

g emp he pla ited f begin mmun be ca ing w

erien

25 W

achi

of An inco a exp

idust

ge at

mon

328, irst p

ued

ed !

inc as

C.

SW

nber

in d

0)

e storms and highest mountains. sweeping back down to sea level . without once feeling a change altitude. No sense of dizziness at Not even "ear popping".

That's the kind of air travel that will ready for you when peace comes. will be made possible by pressurizthe cabins of postwar airliners ng the altitude inside "measured" your comfort at all times.

The pressurized cabin is not a new L Engineers were working on it before the war. But now from air trol specialists at AiResearch who have taken a leading part in the development—comes this definite assurance:

When your postwar airliner travels the higher altitudes - up where flight is smoother, faster and safer - you, in a pressurized cabin, will never be out of the kind of good air you're accustomed to breathing. Up or down, you'll

be as cozy and relaxed as in your living room at home.

• This same AiResearch engineering experience will, when peace comes, bring you other amazing air-controlled devices for your home, office or farm. AiResearch is a name to remember.





'Where Controlled Air Does The Job". Automatic Exit Flap Control Systems. Engine Coolant Systems Engine Oil Cooling Systems • Engine Air Intercooling Systems • Supercharger Aftercooling Systems

Turnover Multiplies Labor Worries

Manpower officials are counting on reduced separation rates as one of the chief benefits to be derived from the system of centralized hiring just installed on the West Coast. But they quietly despair of slowing the whirlwind turnover in other areas until such employment controls can

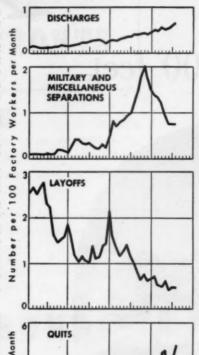
be imposed.

Quits, of course, are the personnel manager's chief headache (chart, opposite), and such measures as requiring a "certificate of availability" for permissible transfer from essential employment have not reversed the upward trend-although War Manpower Commission experts insist that rates would be even higher otherwise. Once hiring is centralized through the United States Employment Service, as on the West Coast, workers who do not obtain USES approval for transfers cannot easily z obtain other employment; this effectively cuts quit rates.

Incidentally, newly published statistics indicate one reason why quits go up; rates among women run almost twice those among men on the average, and women constitute an ever larger proportion of the total factory labor force. Some new women workers find aircraft, ordnance, and machinery jobs too arduous, while many others complain that they cannot keep up with homemaking duties as living conditions deteriorate (BW-Sep.25'43,p108).

Military separations are off sharply from the October, 1942, peak, while miscellaneous separations such as deaths, illness, etc., remain at low, stable levels, as during 1940. The drop in the military figure results from the fact that draft quotas have filled by many school-going 18-yearolds. Also, increased use has been z made of occupational deferments. The easing off in induction rates is counterbalanced by the fact that many of the men now being taken are "key" men-engineers, supervisors, inspectors-who are ever harder to replace. The drafting of even a few of these specialists can upset plant operations-so much so that West Coast manpower plans provide for more careful integration of Selective Service administration with employment schedules.

Layoffs, of course, have diminished with the tightened manpower situation. Nevertheless, there are still materials shortages and seasonal shutdowns, as well as problems incident to a changeover to new types of production, and some layoffs are attribu-





C BUSINESS WEEK

table to these factors. Others-increasingly-can be attributed to the effect of contract cancellations which come as a result of changing military needs.

Discharges, interestingly enough, now run double the 1940 rate-although they are still of small consequence in the total picture. Firing of chronic absentees is the chief reason for the rise, and other forms of rule-breaking naturally increase when labor is in such extreme demand. In addition, many of the new marginal workers being hired are just too incompetent to keep.

which \$1,070,760 was refunded to 1.800 locals. Most profitable of the organized districts was Calumet (cago) which paid \$401,737 in Dues collected from May 1 to Nov. 1942, totaled \$3,150,873 and initial fees \$394,069.

Of the \$1,428,136 spent by the trict offices, the biggest expense \$127,516 for organizational efforts in "Armco-Weirton district." the union has no contract with Weir Steel, while it has lost two collect bargaining elections and won one Armco plants.

• Salaries \$136,686—The largest item the union's international office's \$63 316 expenses was a per capita tar \$152,723 paid to C.I.O. A total \$136,686 was paid for salaries of 79 cers and employees in the internation office. The union boosted its inv ments in United States and Canad war bonds in the six months fr \$82,000 to \$594,968.

SOLDIER DUES STUNG A.F.

High officials of the American F eration of Labor are not easily embrassed by unsavory antics of AF affiliates. Last week, however, a material affiliates. of \$37.50 was threatening to co A.F.L.'s veneer of indifference to put opinion.

The Cannery Workers Union \$37.50 richer because of 50¢ a head collected in lieu of union dues from soldiers who worked for two weeks southern New Jersey canneries-the P Ritter plant at Bridgeton and the Ed A. Hurff plant at Swedesboro-dur the recent tomato crisis. Holding closed shop contract with two cannel which used soldiers from Fort Dix process tomatoes to avert spoilage of to the manpower shortage, the un collected a bargain rate fee, half regular dues, from the men in unifor In defense of its action, the local uni involved said that dues were deduct from soldiers pay only after the n had volunteered to make the paymen and only then because the men w "on leave and subject to conditions isting in the plants." The union pointed out that the men were p union wages which ranged from 500 60¢ an hour while they continued receive their Army pay.

A company official maintained the soldiers were told if they did not thorize a checkoff they would not

allowed to work.

Indignant press comment whi greeted the news of A.F.L.'s \$37 windfall jolted federation leaders they haven't been jolted in a long tin Discussions are in progress on how counteract the impression of an ava cious, unpatriotic organization whi the Jersey episode may leave in the pu lie mind.

Copyright 1943, The Pullman Company

Im as sunk as a Jap destroyer!"

ving a baby is tough enough on a der, without it coming ahead of time.

NAT! PROBABLY EARLY TOMORROW P

nded to c of the umet (0 7 in d to Nov. d initiat by the xpense fforts in Thus th Weir coller on one

gest iten pita tax A total s of 79

ternatio its inv Canad nths f

G A.F. rican F ily emi of A.F , a mat to cr to pul Union

a head s from weeks

-the P the Ed ro-dur Iolding

canner

rt Dix ilage d

he un

. half

unifor

cal un

deduct

the m

payme

nen w

itions (

nion a

rere pa m 50¢

inued

ned th

not a

whi \$37.

aders ng tin

how an ava i whi the pu

2, 19

"So I was plenty excited when I hot-footed it to headquarters after getting that g distance telephone call.

he C.O. was swell about it, though, a I asked could I go home. Gave me frough quick as you can say "Paraops", which is what I'm training for. pt a lift in here from camp—feeling nd-but now I'm as sunk as a Jap stroyer because . . .

I'm stuck! The plane was sold out athe only train home until morning is sall-Pullman Limited—leaving in ten sutes with every bed reserved!

"Now, I wouldn't mind so much, if I as overseas with no chance of getting me—like lots of guys when their babies

are born. I could take that without crabbing, as a part of war.

"What burns me up is that here I am only a few hundred miles away-with a perfectly good furlough-and it looks like I'll stew in the station all night long. That's war, too, I suppose-travel being so heavy-but by the law of averages you'd think that someone with a reservation on that train would change his plans and not be able to use it.

"And this being wartime, you'd think he'd surely cancel it, so someone else could go!

"There's still ten minutes for that to happen. That's why the railroad and Pullman people-who've practically turned this station inside out trying to help me-said to stick around. It'll be a miracle if I get on that train, but . . .

- HERE'S YOUR BED, SOLDIER !

"Miracles still happen! And, brother, that guy who cancelled instead of just

not showing up rates a medal with me!" *

Although sleeping cars are loaded to a higher percentage of capacity than ever before, practically every train carrying Pullmans still goes out with unused space due to "no shows" and late concellations.

So please cancel well in advance of train departure, when plans change, and make the Pullman bed reserved for you available to someone else.

BACK THE ATTACK-WITH WAR BONDS



FOR COMFORT AND SAFETY AS YOU GO AND CERTAINTY THAT YOU WILL GET THERE

iness Week • October 2, 1943

Globe-Wormicke BOOKCASES

. . . for Home and Office Use

The Ardmore bookcases shown below are excellent examples of wood craftsmanship. This popular style has won wide recognition for fine quality and dependable value. Books are always within reach . . . convenient and handy . . unexcelled for home and office use. Designed for efficiency and beauty . . . they harmonize with other furniture. Consult the local G/W dealer . . . or write us.



ARDMORE No. 42

For the home . . . adds dignity and a cultural atmosphere. For the office . . . executives, engineers, buyers, draftsmen, etc., will appreciate this bookcase.



ARDMORE No. 24

For the study . . right eise for man's study or a small apartment. Convenient beside an easy chair.



Makers of over 4000 Ifems Needed in Offices

Brewster Puzzle

Kaiser's name hasn't been enough to get production out of plane concern; troubleshooter to tackle labor mess.

Now that the magic of Henry J. Kaiser's name as chairman of the board of Navy-controlled Brewster Aeronautical Corp. has failed, by itself, to cure the firm's inability to produce planes, the West Coast production superman is assuming active management as an almost last-ditch hope of ironing out the difficulties outlined by both company and union officials to the Senate's Truman committee last week.

• On Labor Relations—First move in the step-by-step plan for Kaiser to take over is the appointment of Henry Morton, his labor expert, as vice-president in charge of industrial relations. Morton, who has handled Kaiser's problems without the loss of a single day through strikes, is confident he can "do business" with Local 365, United Automobile Workers (C.I.O.) which has been operating under the controversial closed-shop contract with Brewster.

This latest effort to get planes rolling off the lines at Brewster follows a turbulent year and a half. In the spring of 1942, the Navy took over, ousted the management, and released the plant after a few weeks under new executives. A year later, things were still dragging,

and Kaiser was called in to see what could do. The flareup and strike on Navy arrest of four plant guards grabb headlines only a month ago.

• Momentous Meeting—The decision give Kaiser wider latitude is believed have been reached at a four-hour was ion in Washington Sept. 24 in which members of the Truman group and House Naval Affairs Committee on ferred with Artemus Gates, Assistant Secretary of the Navy for Air. However, the Navy will not relinquish on trol entirely, as it will continue to specific through Frederick Riebel, Jr., shifts to the Brewster presidency from Navy's Bureau of Aeronautics at the same time that Kaiser went on the company's board of directors.

The Navy also will continue its juit diction over the plant guards and water men whose refusal to surrender unia seniority privileges as members of the U. S. Coast Guard Temporary Resemprecipitated the recent strike at the Hatboro (Pa.) plant (BW-Sep.44 p88). Four of the men were place under arrest at the time. Since the two have been discharged after cournartial proceedings. Others are awaiting a Navy decision.

• Charge and Countercharge-Durin and since the strike, company officia and union leaders have indulged in great deal of name calling, each blan ing the other for production failure Riebel declared the C.I.O. contract we unworkable, that it was scuttling his the same as it sank three previous man agements. It was he who asked the



THOMAS VS. TEXAS

Since its enactment, Texas' new Manford Act-designed to "regulate" union organizing-has been the butt of legal attacks by both C.I.O. and A.F.L. Last week R. J. Thomas, United Automobile Workers president, took the bull by the horns at the oil town of Pelly, coming off second best and minus \$1,000 posted for bond, but he brought the fight to a quick head. Insisting that the law, which requires that union organizers can only ply their trade with a card issued through the Texas Secretary of State, is unconstitutional, Thomas made known that he would not only speak at Pelly but solicit membership for the Oil Workers International Union. Forewarned, Attorney General Gerald Mann obtained a court restraining order, instructed the county sheriff to set the trap. It sprang, catching not only Thomas but three other union officials. Labor's

case against the law thus came of rectly into Texas' courts for test at tion. And Thomas, released after few hours in jail, is expected to be a court Oct. 20, the date his habe corpus writ is returnable. On the outcome of the case will depend the fat of similar laws which are now in effect in the states of Colorado, Kansas, Albama, and Florida.

as tru



THANKFUL or a bit of Canvas Overhead

A... Sanananda Area: It really rains in New a — inches in one night — and a bit of Canvas and is mighty welcome.

every yard of Hooperwood FIRE CHIEF-finished as is just as important to the war effort as steel, num, explosives and other vital materials, for our discress literally travel, live and fight under canvas.

when the war is over, this amazing fire, water, terand mildew resistant Hooperwood "Engineered a"—now produced exclusively for government will open up new broad fields of usefulness, it many widely used products.

ame d

test a

after

to be

the ou the fal in effec

sas, Al

ention but a few—awnings that won't ignite from essly-tossed cigarettes or rot from mildew; special is truck covers that will outlast their predecessors several times over; welding curtains, construction windbreaks and tarpaulins that refuse to burn even though touched by torches, hot rivets, or glowing coals; canvas marine supplies that will help strike out the fear of fire on shipboard; aircraft canvas fabrics that repel gasoline and oil.

These and many other applications of Hooperwood "Engineered Fabrics" for business and industry will be waiting for you when conditions return to normal.

WM. E. HOOPER & SONS CO.

PHILADELPHIA

Chicago

Mills: WOODBERRY, BALTIMORE, MD.

Since 1800 (through six wars) the HOOPER name has symbolized highest quality in Cotton Duck and other Heavy Cotton Fabrics, Paper Mill Dryer Felts, Filter Cloth, Rope, Sash Cord.

Fire-Chief Finished

PATENTED

IOOPERWOOD COTTON DUCK



Turning the "Searchlight" on Opportunities

wanted-pattern work

• OLDEST ESTABLISHED pattern and machine works on Long Island can take on additional wood and metal pattern work. Eppenbach, Inc., 4510 Vernon Blvd., Long Island City, N. Y.

wanted

**ideas, Inventions or Patents—A company with a nationally known product would like to consider ideas and inventions suitable for post-war use in the industrial and commercial field of applying and dispensing lubricants, such as pumps, point to point, centralized lubrication, etc. Also hydraulic, vacuum, or pneumatic actuated mechanisms, pistons, valves, etc., as used in the Alectaft and Automotive field. Also passenger and industrial elevators, automatic leveling devices, controls, etc., and similar items such as portable lifting and stacking trucks or mechanisms used about factories, etc. Before sending us any information, please write for detailed instructions, Dept. NP2, L. W. Ramsey Advertising Agency, Davenport, Iowa.

employment service

• EXECUTIVES SEEKING \$2,500 to \$20,000 positions may contact employers through our confidential services. Estab. 28 yrs. National Business Bourse, 20 W. Jackson, Chicago.

position wanted

prosiston winned

**SEASONED EXECUTIVE—War work completed, desires contact manufacturer postwar or consumers goods. Experienced Finance, Accounting, Sales and Production, Engineering and Maintenance. Draft Classification 4H, Box 358.

book offering

* "SEND NO MONEY" by Louis E. Asher and Edith Heal. The inside story of Sears Roebuck & Co. and Richard Sears, his magic methods of creating business and millions in profits; intimate letters on promotion policles. Illustrated, 240 pages, cloth bound, stamped in gold. A book of priceless value to every businessman, every advertiser. \$2.75. Argus Books, 14 N. Michigan, Chicago.

position vacant

position vacant

ENGINEERING AND PRODUCTION executive. Small manufacturer of electrical and mechanical devices now ruuning at capacity on war work wants man capable of assuming responsibility for current and post-war operation and development. Location Chicago. Write experience and salary desired. Box B59.

"clues" information

"cluce" ads are published as space is available, usually within two or three weeks of receipt. Closing date on publication issues. Thursday of proceding week. Rate: 50 cents a word; \$3.30 per line. Minimum \$3. Bos number counts as 2 words Address replice: o/o Business Week, \$30 W. 42nd Sirect, New York 18, N. Y.

UNCLE SAM'S WAR CHEST

calls for a BILLION DOLLARS A MONTH in War Bond sales. Do your part by encouraging your employees to set aside at least 10% of the gross payroll in War Bonds, through the Payroll Savings Plan!

Truman committee to step in and place the blame.

The National War Labor Board has stepped into the dispute and instructed the union and the company to "execute forthwith" a collective bargaining agreement, and Morris Shapiro, NWLB representative, has been assigned to the task of disposing of the 19 issues which are in dispute in the contract to replace the one that expired on Jan. 31.

NEW LEWIS STRATEGY

Persistent John L. Lewis is again back in the National War Labor Board's hair, this time with a rewritten contract covering the Illinois coal fields for which he seeks approval. Determined to get the \$2 a day wage increase that he proclaimed as his goal last April, the new agreement revises the present work and pay schedules for miners and provides for an 8½-hour day which will include underground travel time. The extra 11 hours work would be compensated for at \$1.75 which, added to the 25¢ a day previously awarded by NWLB for tools and lamps, would bring miners' cash gains to the Lewis figure.

Several weeks ago (BW-Aug.28'43, p14), the board declined to approve a Lewis-written Illinois contract that called for a \$1.25 daily allowance for portal-to-portal time. The latest agreement does not separate portal-to-portal time from additional work time, and it is accorded a better chance of receiving NWLB's O.K. Its final execution, however, is contingent not only on NWLB action but upon OPA as well.

Mine operators have declared that the contract cannot become effective until the higher labor costs it calls for are underwritten by higher prices.

"COMP" PREMIUMS CUT

Effective this month, workmen's compensation insurance premiums take a drop on virtually a nation-wide scale. The saving to employers occurs through a proposal by the National Council on Compensation Insurance affecting calculation of insurance premiums on wages paid for overtime work at "penalty" pay, such as time and a half. State insurance commissioners to whom the proposal was made are believed certain to accept it because it involves a cut in premiums, and to give it the weight of an order to the carriers within their jurisdiction.

Premiums are based on payroll volume. As payrolls soared under the stimulus of war production and overtime work, premiums rose too. Last spring, at the instigation of Adolph Reutlinger, president of a Louisville insurance agency, the Kentucky Workmen's Compensation Board directed carriers in the state to discontinue collecting premiums on 75% of overtime wages (BW-Jun. 5'43,p80).



AIRMINDED MISS

One of the busiest workers at De Airport nowadays is the assistant fic controller, Dorothy Wise, a for airline hostess. From her glass to she often handles a plane a minut the runways while monitoring for dio circuits, keeping an ear on five phones, and announcing flights the public address system. In hers time, Dorothy takes flying lesson

The national council goes a further. It is proposing that if em ers keep their accounts in such fas that the carrier's auditors can disting readily between overtime wages straight-time wages, the "penalty" tion of overtime pay shall not be cluded in the total amount on the insurance premium is calculate the bookkeeping system masks such tinction, then the auditor arbit would deduct from the total payroll third of the amount carried on the as overtime wages before computing premium.

CASES FOR THE PRESIDENT

In th

ew.R

Ligh

r arm

At se

r Nav

ecise

e mir

neras

stallat

ecisio

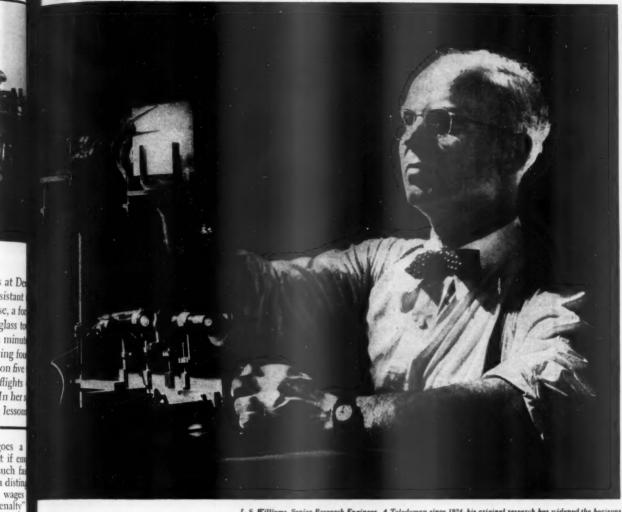
g is a

appli

Long

That the White House will have delicate job of determining wage for all employees of the nation's roads was assured this week when report of the Railroad Emer Board, recommending a 4¢-an-hou hike for 300,000 operating workers bitterly attacked by union heads. jection of what was denounced 'ridiculously paltry award" is certa soon as rail labor chiefs can assemb a formal session.

This imminent action will send train crew wage dispute to Pres Roosevelt who already has his full with the nonoperating emple case involving more than a million ers. In both cases, specially appo



L. S. Williams, Senior Research Engineer. A Toledoman since 1924, his original research has widened the horizons of useful knowledge. . . resulting in new and important developments in precision force-measuring devices.

RESEARCH made Light fight, too

In this total war Light is fighting us, in ways former wars never ew. Research in Optics, the Science Light, has given new strength to

not h t on v lculate

sks such r arbit payroll on the l

nputin

DENT

ill have

wage

ation

k when

Emen

an-hou

workers

heads.

unced

is certa

assemb

ill sen o Pre his

emple

nillion

y appo

per 2,

At sea, the deadly fire-power of r Navy owes its effectiveness to eise optical controls. In the air, miracle lenses of map-making meras probe the vitals of enemy stallations miles away; and the ecision of our high altitude bombg is a devastating demonstration applied optical science.

Long before the war, Toledo Opti-

cal Research played its part in the search for new knowledge in the use and control of Light. It was ready when War called; as were Toledo Research developments in many other fields of war-need.

Today Toledo precision devices and controls located deep in the vital centers of War production serve their country in the production of plane engines, explosives, synthetic rubber and myriad other War uses.

And when the Great Tomorrow comes new progress, born of Toledo Research at War, will be ready for service in the broader fields of a World at peace again.



This Toledo Precision Device balances airplane propeller blades both longitudinally and transversely, permitting blades to be made fully interchangeable . . . and at field bases, permits worn or damaged blades to be rebalanced, rematched, and returned to

TOLEDO SCALE COMPANY

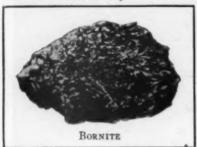
Toledo, Ohio

Canadian Toledo Scale Co., Limited, Toronto, Ont.

COPPER IN WAR-VERSATILE AND POTENT

Invaluable to Victory

Men at war recognize the necessity of copper for munitions. Bornite ore, shown below, is a valuable source of potent wartime copper. It takes a 11/4lb. piece of bornite to produce the single ounce of copper needed for one caliber .50 tracer bullet jacket.



Nature doesn't give up the precious red metal easily. It takes time and manpower to mine, crush and grind the ore, to smelt it . . . to refine the copper, melt and cast it. Only then is copper ready to be remelted and alloyed, cast, rolled or drawn into commercial shapes for fabrication into finished products.

Here are a few wartime requirements for copper. An M-4 tank requires 950 lb., a fighter plane about 1,000 lb., a Flying Fortress 2,968 lb., a submarine 348,000 lb., a destroyer 463,000 lb.

This gives an idea of why The American Brass Company, operating 13 U.S.A. and Canadian plants, is working round-the-clock these days just to supply the copper for "war"



SAVOY-PLAZA

Saving manpower

When the Savoy-Plaza, fashionable New York City hotel, was constructed in 1928, Anaconda Brass Pipe was used throughout for water lines, in keeping with the hotel's policy of installing the finest and most enduring equipment.

Increasing the total plumbing cost by less than 6%, the investment for nonrust pipe has repaid itself many times over. There has been no instance of failure, no interruption of service, virtually no upkeep problem . . . especially important during the recent years of labor shortage.

Americans at War

Since the birth of our country, American women have always fought shoulder-to-shoulder with their men to preserve their homes and their way of living against aggressors.



SOLDIERS BOTH Replaces son at machine

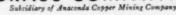
No exception to this time-honored tradition is Mrs. Berenice R. Foster, an employee of the Metal Hose Branch of The American Brass Company. After her son, Corporal Stewart J. Foster, left in the spring of 1941 to join the Army, she took over his machine to help produce the fighting tools necessary to win World War II. Like thousands of other American Brass

workers, she wears her "E" pin proudly, knowing well what it stands for.

Back the attack with an extra War Bond

Published in the interest of a better informed war effort by

THE AMERICAN BRASS COMPANY







m to

pel a

bus (

lell A

man

agara I

reassig

three

Bell's

Both B

ort a high s

sses, the

n a we

return

Curtiss

men ar

NON

After a

en ele

last w

ction 1

IL. In ctrical

cott a 11'41

mined

urt if n

icis G

urt at 1 lits off

ty to re

the pl

sed the

e by fo

orce at

n me

h prod

cally fo

ucts (

de outs

k City

l local

ned a b

nufacti ompar lmers,

Electr

en Brad

's Pate

Cont

ntroller

g. Co.

real. The res

SUNDAY STEVEDORES

By doubling as Sunday stevedors white collar workers are easing freigh jams at railroad terminals while earn ing upwards of \$1.00 an hour. Typi cal is a New York Central genera agent, Glen Darling (above), who un loaded three cars on a recent Sunda He and 50 other railroad office en ployees took over at Detroit whe help wanted ads failed to produce

boards made recommendations for n increases. The nonoperating award an added 8¢ an hour was set aside Economic Stabilization Director From Vinson, and the unions' vote to strik sent the case to the President. Takin its cue from Vinson, the board handlin the operating unions' demands decid to award only a 4¢ boost and save Vi son the trouble of repeating himself.

Best guess is that the President w devise some overtime scheme without technically violating the Little Ste formula.

SUPERVISORS MAY BARGAII

The National Labor Relations Boa has not been able to win universal a ceptance of its doctrine that superviso or foremen are management men a are not, therefore, entitled to collecti bargaining rights and privileges. Union have rejected it and-as in the case the Foreman's Assn. of America-ha continued to organize supervisory en ployees. Now a decision by the No York State Labor Relations Board contradiction of the NLRB policy enu ciated in the Maryland Drydock of (BW-Mayl 5'43,p8) promises to migate further the effects of the nation board's stand on the issue.

The New York case lined up C.I.0 Transport Workers Union against Bee Line, Inc., bus company, and it volved the question of the union's ng to represent dispatchers, starters, a

iness \ Business Week • October 2, 19

rectors, the bus drivers' immediate ervisors.

the New York board acknowledged the dispatchers, starters, and inctors represent management, but it eted the argument that permitting n to select as their bargaining repretative the union of the drivers would apel a division of allegiance between any and union In deciding that bus company supervisors constitute propriate bargaining unit, the New k board refused to reverse its former ition on this issue.

IRD SHIFT DROPPED

vedore

freigh

le eam . Typi

genera

vho un

Sunday

t whe roduce

for pa ward o

aside b

or Fre to strik Takin nandlin

decide mself.

ent wi withou

RGAI is Boar

ersal a

perviso

nen ar ollecti

Union

case

ca-ha ory en

Board cv enu

ock ca

to mi

nation

inst t nd it i

n's rig CIS, 3

Rell Aircraft has hit the bottom of manpower barrel and, as a conseence, is dropping the third shift in its agara Falls plant. Third-shifters will reassigned to other jobs at the Falls; three-shift schedule will be retained

Bell's Buffalo plants. Both Bell Aircraft and Curtiss-Wright ort a net loss in employees because high school boys' returning to their ses, the drafting of approximately 100 n a week, and desire of many women return to their household tasks.

Curtiss would here 3,200 men and men and Bell 2,000 if they could get

NON BOYCOTT ENJOINED

After a six-year seesaw in the courts, ven electrical equipment manufacturlast week won their fight for an in-ction restraining New York Local 3, L. International Brotherhood of atrical Workers, from enforcing a not against their products (BW-tll'41,p66). But the union, still demined to take it to the Supreme urt if necessary, already is drafting an

The restraining order, issued by Judge ncis G. Caffey in the U.S. District art at New York, directed the union hits officers not to seek to induce any-to refrain from using the products the plaintiff manufacturers. Caffey the door against possible subterany punitive measures against m members who handle or install products. The injunction also speally forbade refusal to handle the ducts on the ground that they were de outside the five boroughs of New th City—the device by which the pow-local was accused of having main-and a boycott to the benefit of local nufacturers.

companies joined in the fight are Allismers, Westinghouse Electric, Gen-Electric, Cutler-Hammer, Square D, m Bradley Co., Clark Controller Co., I's Patent Fire Arms Mfg. Co., Elec-C.I.0 Controller & Mfg Co., Monitor bholler Co., and Trumbull Electric

2, 19 liness Week • October 2, 1943



"SORRY, SON, YOU AND MUMMY will have to have the birthday party without me. Look at my desk. Nobody knows what's to be done but me. A thousand little jobs that ought to take care of themselves. And I haven't even started the really important job that has to be done before I go home tonight."



"AS YOUR PRINTER, Mr. Wallace, I'll make a suggestion. Read this Hammermill book, '3 Steps that Get Things Done.' It tells how to organize routine, simplify work with printed forms that get things done right and on time.



"I'M STEPPING OUT WITH MY FAMILY tonight, Jimmy. Look at that desk. Clean as a whistle. All set for tomorrow. Put everything in writing. Put it on paper. mill book showed me how easy it is." That's the answer. And that Hammer-

LOOK FOR THE WATERMARK

IT IS HAMMERMILL'S WORD OF HONOR TO THE PUBLIC

"KNOW HOW"

When you put the ideas in this book to work. Hammer mill suggests that you specify dependable Hammermill Bond. Backed by over 45 years experience, Hammermill papermakers have the "know how" to produce paper that meets the test of business use.

AMMERMILL

FOR VICTORY, BUY WAR BONDS

For free copy of the new little book, "3 STEPS THAT GET THINGS DONE," attach coupon to your company letterhead and mail to Hammermill Paper Company, Erie, Pa.

Position (Please attach to your company letterhead)

BW-10-2

FINANCE

Fight up to ICC

Issue of competitive bids for railroad securities—long a bone of contention—now awaits a formal decision.

When family fights get out of hand, and skeletons are dragged out for the edification of the neighbors, it's hard to tell what the repercussions will be. That's why investment bankers bewail the fact that they haven't been able to settle their quarrel over competitive bidding for new issues of railroad securities within their family; now an Interstate Commerce Commission decision in the brawl has become almost inevitable—a subject spiked by ICC ever since a formal investigation in 1922.

• Matter of Negotiation—Traditionally, railroad securities, other than equipment trust certificates, have been sold by negotiation between the roads and groups of bankers. Equally traditional is the fact that Kuhn, Loeb & Co. and Morgan Stanley & Co. have been the dominant bankers for the railroads.

Most of the people who have to make their living in the bond business would hate to see any change in the setup as radical as compulsory bidding for rail issues—jealously though they may eye the position of the two top houses from time to time. Their attitude was typified by the bitter (but losing) fight they put up when the Securities & Exchange Commission was incubating its Rule U-50 which finally forced most public utility issues onto the auction block.

• Started in 1938—The railroad battle was precipitated by ex-Wall Streeter Robert R. Young. Ever since 1938, when he fought the House of Morgan over control of the so-called Van Sweringen rail empire, Young has been undercutting the traditional leaders in the new issue market. He has been particularly successful when his chief holding company, Alleghany Corp., has had a stake in the financing involved, but he also has been highly vocal in other situations where his connection with the business was much less direct.

Young was not long in striking out at Harold Stanley and the rest of the "Morgan crowd." In 1938, he cut them out of a juicy bit of business when he had the Alleghany-controlled Chesapeake & Ohio sell \$30,000,000 of bonds to his staunch allies, the big Chicago underwriter, Halsey Stuart & Co., and Cyrus Eaton's Cleveland underwriting firm, Otis & Co., on the grounds that their price was better than any that

could be secured via a Morgan-Kuhn Loeb bid.

• Friend Lands One—A little later, he forced the sale at competitive bidding of Cincinnati Union Terminal and St. Louis Terminal issues, where previously Morgan also had been the traditional bankers, and one of these was awarded to friend Henry L. (Harry) Stuart of Halsey Stuart, which made victory even sweeter.

In late 1941, he struck again. This time, though C. & O. no longer controlled the road, Young intervened successfully in the case of a new \$18,000,000 Erie issue. Here the ICC rescinded an earlier negotiated sale to Morgan Stanley and ordered the bonds sold at auction. Once more, Halsey Stuart ended up finally with an offering originally tabbed for Morgan.

• Erie Snagged Again—Next, due to an ICC investigation brought on by objections filed by Young and the C. & O., Erie again had to cancel a previously negotiated sale (BW-Feb.13'43,p101), this time of \$14,000,000 3½% bonds sold to Morgan Stanley for public distribution. The ICC, though ducking a final decision on competitive bidding, bawled out Erie for not having explored the possibilities of a better price elsewhere, and the road soon changed the financing into \$10,000,000 of serial notes, These it sold at competitive bidding, and again Halsey Stuart was low.

In July, the fight flared up again. This time Young was conspicuous by

his absence, but his colleagues, Star and Eaton, were in there swinging him. They showed no hesitancy, eith in tackling a tough customer—the Persylvania, a "Kuhn Loeb road"—in whithe Young group very definitely has entrée.

• Westerners Repulsed—In this can the ICC finally approved an earlier a gotiated deal under which Kuhn La bought \$28,000,000 Pennsylvania, 06 & Detroit 3½% refunding bonds. As the ICC termed a last minute offer Young's allies to buy the bonds at 10 s. Kuhn Loeb's original price of 10 as "made on the spur of the mome and without adequate consideration."

From there on, however, the Penno vania-Kuhn Loeb victory petered of The ICC wasn't convinced that it road had secured the best price possifor its bonds. Also, it forced Ku Loeb to up its price to 101½. The IC too, was disturbed by testimony about interlocking directorships of the mand many institutions handling the bonds (a pet theme of Young's when nouncing negotiated sales and "bank dominated" directorates) and in comments on this phase of the mat didn't spare the lash. Then, to cap telimax, the commission suddenly decided that it should conduct a formal equiry into all aspects of the competit bidding picture.

• The Formal Lineups—In the perset aside for the filing of briefs (is completed), the ICC received 46 comunications of which only eight favor competitive bidding. Of the 23 ach briefs filed, 16 wanted a continuance the negotiated sale method. This groincluded such organizations as Methods.



Key figures in the fight over competitive bidding for new issues of railroad securities are Harold Stanley (left), head of Morgan Stanley & Co., one of the two dominant Wall Street



Th

bankers of steam carriers (Kuhn, Lo & Co. is the other), and Robert Young, ex-Wall Streeter, now head the Van Sweringen roads, and an enemy of the House of Morgan.

Man with a Wheel

THE Stainless Steel this man is working on today may be in Italy, Germany Japan next month . . . part of a gun, a tank or a plane.

The Man With The Wheel knows that every piece of Stainless Steel that leaves shands must meet gruelling tests on battlefronts and production lines. Trained in acting apprenticeship and seasoned through experience, this workman knows that skill, thoroughness and care are helping to defeat the enemy, to shorten the war 4 to save American lives.

The products of this wheel are giving dependable service in every sector of this ball war. Rustless, largest producer of Stainless Steel, is helping to make American atting weapons count where they will mean the most. Our laboratories are connectly developing and testing Stainless Steels to meet new and exacting requirements.

War has telescoped time, crowded work that formerly took years into a brief an of months. We are sparing neither time nor effort to produce precision Stainless alto help America with her Number One Job — Winning the War.

BACK THE ATTACK



RUSTLESS



hn, Lo Robert

w head

nd an o

organ.

r 2, 19

ies, Sta inging cv, eith the Per -in wh ely has this ca carlier a uhn Lo mia, Oh nds. Al te offer ds at 10 ce of 1 mome ration." e Penns tered o that I e possi ced Ku The IO ony abo the ro dling s when d "bank nd in he mat to cap denly formal ompetit he pen riefs (in 1 46 co 23 act nuance This gr as Met

IRON AND STEEL CORPORATION
BALTIMORE, MARYLAND

Producing STAINLESS STEEL Exclusively



Towmotor at Marion, Ohio Engineer Depot stacking pallet loads of camouflage material in warehouse,

are effectively moved through production, storage, and shipping on pallets or similar load carriers

handled by

TOWMOTOR



THE 24-HOUR ONE-MAN GANG

70WMOTOR CORPORATION • 1221 E. 152NO STREET, CLEVELAND 10STRAIGHT-GAS POWERED INDUSTRIAL TRUCKS EXCLUSIVELY—SINCE 1919

politan Life, six major railroad systementer National Assn. of Securities Deleand the Investment Bankers Assn. America which said Otis was its emember publicly sponsoring computive bids.

Briefs favoring competitive bidd were filed, other than by participa by the Railway Labor Executives by two Young roads, C.&O. and New York, Chicago & St. Louis, ioint Halsey Stuart-Otis brief carrier familiar name as coauthor-the very seph L. Weiner, in fact, who, bef resuming private law practice, head the SEC utilities division and wrote competitive bidding rule now operate SEC Moderately Mum—The SEC. self, filed no formal brief, since it tem the problem "patently one for solut by the ICC" alone, but it did send i for information purposes-full det covering all the utility issues sold to August 31, 1943, since its competit bidding rule went into effect.

The briefs filed disclosed nothing pro or con, that had not been discuss many times publicly in the past. The against compulsory bidding still call it leads to overpricing in times of the markets that would eventually harm vestors and cost the rails later on such investor support. They point out the all roads already have the right, if the wish, to sell their securities throus competitive bidding and ask why, if method is so good, the U. S. Treas abandoned competitive bidding in 19 after trying it out with five offerings long-term issues.

• Questionable Points—Also, they the ICC has had the power for yet to see that the rails secured a reasona price for any new issues sold, and the bids made by objectors for issues priously sold at negotiated sales mulittle as a guide since they are purpose made high in an endeavor to upset

Our

If we h

er face .

ybe w

WFOR

he wron harlies.

o steep ford to

We ca

winess r

Splurgi

e thing

Then,

tet high

nd faster

The re

re is r

day tha

This y

billion

regoods

ices. 45

That's

he right

Gover

apple-cart. The Investment Bankers Assn., particular, fears that competitive ding would eventually force concention of distribution into the hands relatively few underwriters and deal and wipe out the many small hor (mostly I.B.A. members) so respons in the past for the wide distribution issues heretofore deemed so neces • And the Other Side-The Hal Stuart-Otis brief bluntly asks the I to break "the monopoly of Mor Stanley & Co. and Kuhn, Loeb & which has been so detrimental to carriers and the public." It offers ap priate answers to each of the objecti and questions propounded by the op sition.

The ICC public hearings, soon to held, are generally expected to be rat heated, and no one is guessing as the commission's eventual decisi either. However, if compulsory copetitive bidding for rail issues is order



Mister-you're getting paid in DYNAMITE!

Tr's NOT KID OURSELVES about this.

L'Our pay envelope today is dynamite.

If we handle it wrong, it can blow up in

If face . . . lengthen the war . . . and

type wreck our chances of having

uppiness and security after the war.

t, if the

Treas in 19 erings

for ve

asona

and t

sues p

es m

urpos

pset

Issn.,

tive 1

ncen

hands

deal

1 hou

ponsi

ution

ecess

Hal

the I

Mor

b &

1 to

rs app

on to

be rat

decis

ory o

lewrong way to handle it...and why lewrong way is for us to be good-time larlies. To wink at prices that look steep...telling ourselves we can find to splurge.

We can't afford to—whether we're mess men, farmers, or workers. And e's why:

Splurging will boost prices. First on whing, then all along the line.

Then, wages will have to go up to the higher prices. And higher wages alpush prices up some more...faster defaster, like a runaway snowball.

The reason this can happen is that the is more money in pay envelopes that there are things to buy with this year, we Americans will have billion dollars more income than there agoods and services to buy at present them. 45 billion dollars extra money! That's the dynamite!

he right way to handle it...and why
a Government is doing a lot of things to

keep the cost of living from snow-balling.

Rationing helps. Price ceilings help. Wage-and-rent stabilization helps. Higher taxes help. They're controls on those dangerous excess dollars.

But the real control is in our hands. Yours. Mine.

It won't be fun. It will mean sacrifice and penny-pinching. But it's the only way we can win this war... pay for it ... and keep America a going nation afterwards.

And, after all, the sacrifice of tightening our belts and doing without is a small sacrifice compared with giving your life or your blood in battle!

Here's what You must do

Buy only what you absolutely need. And this means absolutely. If you're tempted, think what a front-line soldier finds he can get along without.

Don't ask higher prices—for your own labor, your own services, or goods you sell.

Resist pressure to force YOUR prices up.

Buy rationed goods only by exchanging stomps. Shun the Black Market as you would the plague.

Don't pay a cent above ceiling prices.

Take a grin-and-bear-it attitude on taxes. They must get heavier. But remember, these taxes help pay for Victory.

Pay off your debts. Don't make new ones. Getting yourself in the clear helps keep your Country in the clear.

Start a savings account. Buy and keep up adequate life insurance. This puts your dollars where they'll do you good.

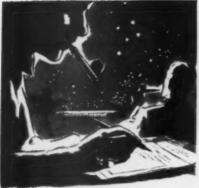
Buy more War Bonds. Not just a "percent" that lets you feel patriotic, but enough so it *really* pinches your pocketbook.

If we do these things, we and our Government won't have to fight a post-war battle against collapsing prices and paralyzed business. It's our pay envelope. It's up to us.

KEEP PRICES DOWN!

Use it up • Wear it out
Make it do • Or do without

This advertisement, prepared by the War Advertising Council, is contributed by this Magazine in co-operation with the Magazine Publishers of America.



"... UNDER THE SOUTHERN CROSS

There are several ardent KIRSTEN smokers on this Southern Tropical Island... and every night our KIRSTEN pipes are enjoyed as we think of our homes and loved ones."

An except from a letter we received recently which indicates that even under the most adverse circumstances, a Kersten smoker finds pleasure and comfort in this fine pipe.

Keep yours clean and you'll keep it going for the duration and longer.





The days when extra typists had to be brought in, or the regular staff worked overtime to complete a rush copying job, are forever gone. One of the many Hunter Electro-Copyist models suits your needs exactly. With it your office boy can turn out as many copies as desired of anything printed, written, typed or drawn. A complex isometric drawing, or a simple but long circular letter, are all the same t the Hunter Electro-Copyist—they are turned out with photo-exact accuracy- and at a speed that makes you forget time was ever a factor in reproduction jobs.



GET THE FACTS! Send for booklet showing why the Hunter Electro-Copyist is superior to other reproduction methods. Or ask for a demonstration on your own work.

HUNTER ELECTRO-COPYIST, INC. 107 F. Fayette St. Syrocuse, N. Y.

THE MARKETS

The rather sharp mid-September flareup in prices seems to have turned out to be a six-day wonder. Stocks generally have since been showing a consistent, even though uneventful, downtrend. According to Street reports, this has been mainly due to the selling coming into the market from disappointed traders who had guessed that the move upward would gain some momentum; instead, it showed no follow-through whatever.

• That Bull Signal—This action of the market, indicating that the investor is still confused over the outlook, has been very disappointing to the Street as a whole. On the defensive is the group which has yet to admit publicly that the late-July break in prices ever meant anything more than a mere delay in the fulfillment of the rosy predictions they had hazarded when the rails broke through earlier (BW—Jul.17'43,p102).

Actually, this group is now forced to confess that its omnipotent charts currently furnish no clear "signal" on the direction the market may take in its next move. The most they venture to say now is that the "inconclusive nature" of the recent action seems to indicate that even some additional recession in prices could be witnessed without destroying all hope for a subsequent resumption of the earlier 1943 bull market trend.

• Floor at 100% of Parity—The week's major market flurry was in commodities rather than securities. It all started when Canadian authorities suspended wheat trading on the Winnipeg Grain Exchange on Tuesday, and the excitement increased later the same day when the House Agriculture Committee was reported to have voted to put a basic floor under farm prices at parity.

The Winnipeg suspension (which adds another to the steadily growing list of ghost commodity markets) was in a meaure unexpected even though it had been rumored for days. The previous afternoon "good authority" in Ottawa had been quoted to the effect that the most had been discussed but abandoned, path because Britain opposed it. many tion would

porat

obvio

justm

tribu

write

heen

had s

of try

ing w

WIR

Th

missie

ings (

Posta

filing

nartie

fears

FCC

considera ver

laid d

agree

less.

days

on, ac

sion

did n

spons

vote.

SER\

Th

States

000 Amer

With

these

fore !

with

the s

ings i

Fre

June

300.0

to th

enem

of du

enem

\$13,3

claim

inclu

milit:

volve

tilitie

of archeld l

from Howe

2.69 9 out b

Busin

All

Ho

• Factor in Wages—Purpose of the more is to protect Canada's cost-of-living index. Various subsidies have been paid of lat to keep that indicator from edging up to the point where another wage bonus would have to be paid. Higher wheat prices, which have their inevitable influence on flour and bread, had been worrying the price and wage authorities lately.

Winnipeg contracts will be settled until further notice at Monday's closing quotation of \$1.20\frac{2}{4}; the government is taking over wheat from earlier crops and from the one now being harvested on the basis of \$1.25, Fort William.

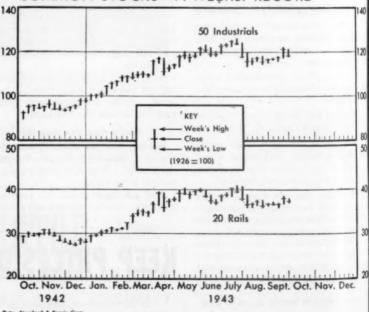
 Action in Chicago—The closing lifted prices in Chicago where traders bought to lift spreads. Strength spread to other grains, notably rye, and to other commodities after the report of the pany floor program got around.

Security Price Averages

	This Week	Week Ago	Month Ago	Year Age
Stocks				
Industrial	118.5	121.3	116.8	89.
Railroad	37.4	38.2	37.0	28.
Utility	51.4	52.0	50.1	
Bonds				
Industrial	117.3	116.9	117.2	1103
Railroad	98.2	98.6	98.6	87.
Utility	115.7	115.7	115.6	106.6
U. S. Govt		113.1	112.9	110.

Data: Standard & Poor's Corp. except to government bonds which are from the Federal Reserve Bank of New York,

COMMON STOCKS - A WEEKLY RECORD



many believe it would be only a question of time then before that method would become obligatory for all corporate offerings. Such a turn of affairs, obviously, would necessitate much readjustment of the present securities distribution setup. Also, some underwriters now wonder if it might not have been wiser and more profitable to have had somebody in the ring slugging it out with Young from the start instead of trying to handle the matter in keeping with "the Street's dignity."

WIRE MERGER GO-AHEAD

The Federal Communication Commission, after formally closing its hearings on the proposed Western Union-Postal Telegraph merger, permitted the filing of briefs on the case by interested parties up to Sept. 22. This caused some fears (BW-Sep.18'43,p110) that the FCC might not have sufficient time to consider the matter properly and render a verdict before Oct. 1, the deadline laid down by Western Union when it agreed to the deal.

However, such fears proved groundless. The deadline was met with two days to spare, since the FCC (spurred on, according to reports, by a request of the N. Y. State Public Service Commission which, also considering the case, did not want to have to assume full responsibility) announced on the 28th its approval of the consolidation by a 5-to-1

a meas

s after-wa had e more l, parth

e mov

g index

of late g up to bon wheat

ble in d been

horitie

closing

ment i

ps and

on the g lifter

bough

o othe r con

parity

h

110.

2, 1

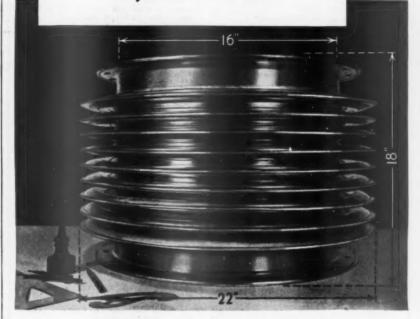
SERVICEMEN AS A RISK

The armed forces of the United States on June 30 included some 4,100,-000 holders of policies issued by the American life insurance companies. With but few exceptions, moreover, these policies had been purchased before the war and thus provide holders with full protection while they are in the service. These are among the findings in a comprehensive survey by the Institute of Life Insurance.

From the time of Pearl Harbor until June 30, 1943, benefits totaling \$10,-300,000 were paid on 9,100 policies, due to the death of holders as a result of enemy action. Death occurring in line of duty, but excluding action with the enemy, necessitated the disbursement of \$13,300,000 on 4,900 policies, while claims for deaths from natural causes, including those not connected with military service, numbered 4,000 and involved payment of \$7,400,000.

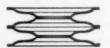
All in all, the first 19 months of hostilities cost the life companies payments of around \$32,000,000 on the policies held by those in the service. In the first six months of 1943, claims for deaths from all causes came to \$15,000,000. However, this figure represented but 2.69% of the total death benefits paid

ANOTHER IMPOSSIBLE by COOK



This Giant Bellows Solves a Difficult Heat Expansion Problem

War's demand for the seeming impossible is becoming commonplace here at Cook Electric . . . The successful meeting of one out-of-the-ordinary requirement invariably leads to another . . . bellows illustrated above is another emphatic example . . . A well known manufacturer wanted a bellows that would handle rarefied gases for a difficult heat expansion problem—an almost impossible problem based on specifications submitted—but again Cook "came through."



This bellows, involving the new "Sine Curve" principle and Cook "Springlife" construction, is made of .025 gauge electrolytically pure copper. It has a 22" O.D. and a 16" I.D. and is 18" between flange faces. The mated flanges

are copper sheathed steel. The bellows is phos-copper brazed, will withstand temperatures as high as 1200° F. It has 2' of travel and 1' lateral thrust, differential pressure is 15 lbs. and its life expectancy is 3,500,000 flexures.

It is an outstanding job of bellows design and construction . . . one more proof that you can look to Cook for the impossible.



out by the life companies in that period, 2700 SOUTHPORT AVENUE . CHICAGO (14) ILLINOIS

ADVERTISERS IN THIS ISSUE

Business Week-October 2, 1943

ACME STEEL CO	INTERNATIONAL MINERALS &
Agency—FULTON, HORNE, MORRISSET CO. THE ADDRESSOGRAPH-MULTIGRAPH	GHEMICAL CORP. 49 Agency—C. FRANKLIN BROWN & Co.
CORP. 51 Agency—Griswold-Eshleman Co.	JOYCE MACHINE CO
AIR-MAZE CORP. 56 Agency—FULLER & SMITH & Boss, INC.	KEARNEY & TRECKER
AIRESEARCH MFG. CO., DIVISION OF	Assoc. Inc.
THE GARRETT CORP. 91 Agency—J. WALTER TROMPSON CO.	KEASBEY & MAITISON CO 4 Agency—GEARS-MARSTON, INC.
AMERICAN BRASS CO	KEYSTONE STEEL & WIRE CO
AMERICAN CHAIN & CARLE CO INC MT	KIRSTEN PIPE CO
Agency—Reinche-Ellis-Younggreen & Finn, 140.	KOPPERS CO
AMERICAN MAGNESIUM CO	LINDSAY & LINDSAY 50
ARMSTRONG CORK CO	LYON METAL PRODUCTS, INC 45
ASSOCIATION OF PREFORMED WIRE	Agency—Evans Associates, Inc. P. R. MALLORY & CO
ROPE MANUFACTURERS	Agency-THE AITKIN-KYNETT CO.
FINN, INC. ATLAS POWDER CO	MANNING, MAXWELL & MOORE, INC. 107 Agency—Bridge & Varley, INC.
Agency-THI AITHIN-KINETT CO.	McGRAW-HILL BOOK CO., INC66, 90 THE-MERIAM CO
ATLAS PRESS CO	Agency-The Bayles-Kure Co.
Agency—KETCHUM, MACLEOD & GROVE, INC.	MICRO SWITCH CORP
BANK OF AMERICA	MONROE CALCULATING MACHINE CO. 67 Agency—Allet & Richards Co.
BOEING AIRPLANE CO	MONTGOMERY ELEVATOR CO 44 Agency—L. W. Ramset Co.
Agency-N. W. ATER & SON, INC. BRIDGEPORT BRASS CO	NATIONAL BOARD OF FIRE UNDER-
BUELL ENGINEERING CO	WRITERS 59 Agency—MacFarland, Avetard & Co.
Agency—TRACY, KENT & CO., INC. BUFFALO FORGE CO	NATIONAL PUBLISHERS ASSOCIATION, INC
Agency Malvin F. Hall Advertising Agency, INC.	THE NEW JERSEY ZINC CO 9
BURROUGHS ADDING MACHINE CO 21	NEW YORK, CHICAGO & ST. LOUIS
CLARAGE FAN CO	Agency KENTON & ECKHARDT, INC.
Agency—W. J. WILLIAMS ADVBB. AGENCY THE CLEVELAND ROCK DRILL CO 39	NORTHERN PACIFIC RAILWAY CO 60 Agency-Batten, Barton, Durbting &
Agency-The Bayling-Kerr Co.	OSBORN, INC. OHIO TOOL CO
CONE AUTOMATIC MACHINE CO 46 Agency—Henry A. Loudon Adv. Agency	PLUSWOOD, INC
Agency—Henet A. Loudon Adv. Agency CONTINENTAL CAN CO. INC. 26	Agency CHARLES MEISBNER & ASSOCIATES, INC.
CONTINENTAL CAN CO., INC 26 Agency—Batten. Barton, Dursting & OSBORN, INC.	PRESSED STEEL TANK CO
COOK ELECTRIC CO	THE PULLMAN CO 73
DeHAVILLAND AIRCRAFT OF CANADA,	Agency—Young & RUBICAM, INC. RCA VICTOR DIVISION, RADIO
Agency—Spitzer & Mills, Ltd. 55	RCA VICTOR DIVISION, RADIO CORPORATION OF AMERICA
Agency-Van Auken-Bagland, Inc. 48	REYNOLDS METALS CO
HENRY DISSTON & SONS, INC	RUSSELL, BURDSALL & WARD BOLT &
DODGE MFG. CORP	NUT CO
Associates, Inc.	RUSTLESS IRON & STEEL CORP
DUREZ PLASTICS & CHEMICALS, INC 29 Agency—J. M. MATHES, INC.	S. K. F. INDUSTRIES, INC 2
Agency—THE GRISWOLD-ESHLEMAN CO.	L. C. SMITH & CORONA TYPEWRITERS, INC
THE FAFNIR BEARING CO3rd Cover	Agency-Nuwbll-Emmett Co.
FAIRCHILD ENGINE & AIRPLANE CORP. &	8. F. STURTEVANT CO
Agency—CECIL & PRESBRET, INC. FORD, BACON & DAVIS	TOLEDO SCALE CO
Agency—McCann Edickson, Inc. THE FYR-FYTER CO	TOWMOTOR CORP
Agency—VAN DE MARE ADV., INC. GENERAL ELECTRIC CO	Agency—Howard SWINE ADV. AGENCY UNION SPECIAL MACHINE CO 22
Agency-NEWELL-EMMETT CO.	Agency—RUSSELL T. GRAY, INC. U. S. FIDELITY & GUARANTY CO 79
THE GLOBE-WERNICKE CO 94	Agency-VAN SANT, DUGDALE & Co., INC.
THE B. F. GOODRICH CO	VAUGHAN MOTOR CO
Agency—G. M. BASFORD CO. HAMMERMILL PAPER CO	WAGNER ELECTRIC CO
Agency-Batten, Barton, Dunsting &	WARNER & SWASEY CO2nd Cover
JOSHUA HENDY IRON WORKS 44 Agency—West-Marquis, Inc. HERCULES POWDER CO., INC 35	WAVERLY PETROLEUM PRODUCTS CO. 28
HERCULES POWDER CO., INC 35	WESTERN ELECTRIC CO
WM. E. HOOPER & SONS CO 95	Agency—NEWELL-EMMETT CO. WESTINGHOUSE ELECTRIC & MFG. CO. 71
Agency—McLain ORGANIZATION, INC. HUNTER ELECTRO COPYIST, INC	Agency-Fuller & Smith & Ross, Inc.
HUNTER ELECTRO COPYIST, INC	WILLSON PRODUCTS, INC
Agency—CROIL & PRESERRY, INC. 10	THE J. G. WILSON CORP

and payments covering the lives of those killed in action accounted for only 0.84% of the total.

In the first seven months of 1943, total death benefits disbursed by the American life companies came to \$650, 850,000. This was 10% more than the outgo in the same 1942 period, but death benefit payments in July alone ran only slightly above similar year-earlier levels.

What

"A sl

50 pa

on bo

eceive vere to

tudent 5 to 1

n fact, nanage

nswers

he corr

f the S

ten t

ot eve

re in a

The !

ork C

Vew Yo

Peni here's

er resul

Last A

shed th

m his

000 st

Some

and to

he cou

now th

ent of

st We

even, v

utions

hat A

The

ewspap the 1

hat th

diculo

er, sai

A fev

oated

nest of

hole A

ct tha

m of

mes th

thool.

othing

achie

d of

rel of

e mas

ucatio

There

Big "VT" Credit

Nash-Kelvinator becomes first large war contractor to avail itself of cushion against termination in new type loan.

Since war conditions stopped the manufacture for civilian use of its normal principal products—the Nash automobile and the Kelvinator and Leonard home and commercial electric refrigerators—the Nash-Kelvinator Corp. has grown into one of the nation's large producers of war supplies. It has concentrated on aircraft engines and propellers (lately, helicopters, too), but numerous other munitions also make up a good part of its current output. Scope of its business is perhaps best evidenced by the \$650,000,000 of unfilled orders listed on its books June 30, 1943.

• Convenient Cushion—The end of hostilities, with consequent cancellation of contracts, and the subsequent swingback into normal peacetime production, posed a big problem. It was not surprising, therefore, to see the company last week become the first major armament producer to take advantage of the postwar cushion recently made available to those in its fix via the new type of those in its fix via the new type of specifically designed to protect a war contractor's working capital when war orders are terminated.

Negotiated by the Chase National Bank through the Federal Reserve Bank of New York, the new Nash-Kelvinator \$,75,000,000 revolving Regulation VT bank credit will be shared by a group of 21 institutions throughout the country with which the company has long enjoyed close relations. Chase and another New York bank, the Manufacturers Trust, will each get a 10% piece.

• Credit Now or Later—Terms provide for a government guarantee to the lending banks of 90% of any loans made thereunder, and, on sums borrowed, an interest rate of 2½% will prevail. The standby charge on the unused portion of the credit is to be three-eighths of 1%, and funds meanwhile may be borrowed to finance any current war contracts, as well as to provide immediate working capital in the event of any sudden contract terminations.

THE TRADING POST

What about Education?

1943, the

650.

n the

alone

year.

mes

to

ainst

in.

man

ormal

nobile

home

tors-

ITWOIL

lucers

ed en

lately,

other

art of

siness

650,

on its

f hos-

on of

gback ction,

arpris-

y last

iment

postble to

pe of ich is

a war

n war

tional

Bank

inator

1 VT

oup of

vitane

ig en-

other

turers

rovide

lend-

made

ed, an

f 1%,

rowed

cts, as

orking

n con-

1943

The ion of

"A share of stock with a par value of 550 pays a 4% dividend annually. If on bought ten shares of the stock at 540, what rate of income would you eceive on your investment?" If you are to ask the average high school tudent that question, the chances are 5 to 1 you would get a wrong answer. In fact, 2,281 pupils, in a recent test, managed to give 95 different wrong nswers. Only 4 out of every 100 knew the correct answer.

This was considered the most difficult if the 55 questions in the test. Nearly alf the pupils did not know that 86.4 ten times 8.64. One out of ten did not even know how many weeks there in a year. About 18%, or nearly ne out of five, could not express ½ as

percentage.
The tests covered pupils in five New lork City high schools, five upstate New York high schools, one high school Pennsylvania, and one in Kansas. There's little reason to believe that beter results would be obtained elsewhere.

Last April, the New York Times pubshed the results of its survey of Amerian history knowledge among some 1,000 students in 36 colleges.

1000 students in 36 colleges.
Some 20% of the students were ound to have not the faintest idea what he country looks like; 30% did not mow that Woodrow Wilson was Presient of the United States during the st World War; 84%, or six out of even, were unfamiliar with the contriutions of Jefferson; 88% could not tell that Andrew Jackson had done.

The Harvard Crimson, a student enspaper, attacked the survey as "one of the biggest hoaxes in American history." Three Harvard professors said but the survey and its results were diculous. But educators, the country wer, said they were not surprised.

A few days ago, an editorial writer lated over what he called "the conuest of high school education" by the hole American people, and over the it that with three times the population of Great Britain we have fifteen mes the number of children in high the hole. Which may mean just exactly othing as a measure of educational togress. Such a "conquest" may well eachieved by dragging down the standd of high school education to the sel of the mass rather than by raising it mass to the level of high school dication.

There is reason to believe that the

high school graduate of today does not get anywhere near the education of his predecessor of 30 or 40 years ago. Indeed, there is some ground for suspicion that many of today's college graduates are little better educated than the high school graduates of that day. That, of course, applies to the academic courses rather than to the professional schools, although it is possible that inadequate high school preparation is a substantial handicap to professional education. Merely keeping more boys and girls in school longer does not mean that they will be better educated.

Wilson L. Fairbanks, one of the editors of the New York Times, said a few months ago: "I am greatly concerned over the widespread manifestations of the spirit of unthoroughness, the sheer inability or unwillingness to go to the very root of things. Softness, of which Americans are often accused, is not a harsh enough term to describe this. We need that blunt and uncompromising Anglo-Saxon word—sloppiness."

Willard Waller, professor of sociology at Columbia University, in making public a study of educational institutions in wartime, some three weeks ago, observed that "the situation is becoming worse, and a generation of poor education is ahead."

Retraining of demobilized soldiers and war workers, and the expansion of vocational training are recognized by many business men as their own responsibilities. But they are becoming concerned over the more fundamental parts of education—the elementary schools, high school and college training—which pre-form the human material that comes to them: the young folks they have to work with, to train in special skills, and to whom they ultimately will intrust their businesses, factories, and laboratories.

During the past 20 years or more, educational facilities have increased prodigiously. In the large cities, per capita expenditures for libraries have increased 300%; daily expenditures for each student attending school have risen 250%.

But suppose we get through this war and open the door of opportunity more widely to the so-called common man. Can we hope that the next generation—unversed in our history, inept in its arithmetic, able to read but not to reason—will do much better than those who have gone before? We have been told that the hope of democracy lies in an educated people. On the record, just how bright is that hope? And what are we doing about it?

W.C.



Not Too Old

HIS brains and skill are young enough. Age has sapped the strength from his arms, legs and back but his hands have kept the cunning that years of experience taught him.

In this emergency he has come back to work. A 'Budgit' Hoist made it possible. It lifts the heavy parts in and out of his machine tool so that he produces as much as the son whom he replaced.

Even women, with 'Budgits', are filling thousands of places previously denied them by the necessary lifting. With electric power lifting the parts, the worker's strength goes into production. There is no danger of rupture, strain or over-fatigue.

There are no installation costs with a 'Budgit'. "Hang up, plug in and use" are the only instructions.

As the call goes out for more women and older men in war industries, the 'Budgit' Hoist is a salvation to management troubled with loss of man-power.

'Budgit' Hoists are portable, electric hoists with lifting capacities of 250, 500, 1000 and 2000 lbs. They are priced from \$119 up. Hang up, plug in, use. For information, write for Bulletin 356.





'BUDGIT' Hoists

MANNING, MAXWELL & MOORE, INC. MUSKEGON, MICHIGAN

Builders of 'Shaw-Box' Cranes, 'Budgit' and 'Load Lifter'
Hoists and other lifting specialties. Makers of Ashcroft Gauges,
Hancock Valves, Consolidated Safety and Relief Valves and
'American' Industrial Instruments.

THE TREND

X'S IN THE POSTWAR EQUATION

It is one of the anomalies of the present stage of our economic development that the importance we attach to the saving-investment functions of our economy is so great while our knowledge of the working of those functions remains so small. To nothing does this apply with such force as to wartime savings—and to the problem of how far they will carry us in the postwar era.

Business men and economists generally agree that the immediate postwar outlook for America is a higher level of peacetime activity than we have ever seen before—simply because of the accumulation of savings during these years in which the needs of war have denied us the autos and homes, plant and equipment which we otherwise would have bought.

• Yet how high that level will be is still unknown. Where will it fall between the 100-billion-dollar gross product we knew in 1940, and the 200-billion-dollar gross product we shall be experiencing by this year's end? In the realm of mystery with that question rests also another: How long can we sustain into the years of peace whatever level of activity we do attain at their beginning? On the answers to these hangs our entire future.

Answers to the first can take two extremes. One is that we shall suffer postwar inflation—for even 200 billion dollars would be an overvaluation of our ordinarily cheaper peacetime capacity product. The other is that we shall suffer mass unemployment—for if we produce in the postwar only as much as in 1940, unemployment might run up to 20 millions (BW—Apr.24'43,p116).

• On the one hand, the end of the war will see business and consumers attempting to satisfy their pentup wants for goods. They may do so by investing and spending not only their current incomes, but also part of their accumulated savings—at a time when government may face demobilization and rehabilitation expenditures so enormous as to be met only by continued deficit borrowing. These conditions would result in capacity production, but they also must create an inflation of prices to distribute the fruits of our still limited capacity to produce.

However, we are also frequently reminded of the one lesson of previous investigations into savings and investment: that, normally, savings of both business and consumers tend to rise far more rapidly than the gross national product, but that the opening of investment outlets fails to accelerate as quickly. Inevitably, when this occurs it limits the rise of economic activity.

We know that both sets of conditions will be operative in the postwar economy, but we don't know to what extent. Take consumer spending and saving, for instance. Economists have differed widely in their estimates of how much consumers may be expected to increase their rate of savings at levels of the national income higher than we have known before in peace. However, working against these assumed but unmeasured increases will be the fact that consumers who have put away nest-eggs during the period of wartime shortages will be freer-handed about spending their postwar incomes.

Although we have figures on how much all consumer are saving during the war, we know very little about jut how such savings are distributed as between those in come groups that look to savings as capital and those that look to savings as nest-eggs. From what figures there are on these accumulations, we can only speculate as to their effect on postwar spending habits. Because we don't know how the rate of savings would tend to rise "not mally," or how much this would be offset by the effect of wartime accumulations, all theories about what consumers will do are subject to a doubly wide range of error.

• In turn, the question of how much investment them must be to offset postwar savings is left unanswered Indeed, we don't know how much savings business would tend to accumulate out of the postwar gross product. And equally subject to error are estimates of what business would tend to invest in the postwar period. For a against the lag in investment outlets prewar, we know that investment would tend to increase if consumer spending rose sharply; and we also know that business must make up for part of the replacement of equipment which it was forced to suspend during the war.

What we know about how long our economy will run at higher peacetime levels is as nothing compared to what we know about how high a level we are apt to rise to; and that isn't much, as we have seen. But just as we know that those levels of activity are apt to be higher than prewar, so also can we see that they will not be long sustained if we experience a marked postwar inflation that dissipates the benefits of wartime savings, or if, to begin with, we fail to rise much higher than the levels of 1940, despite the lifting but somewhat temporary effect of deferred demand.

• Although it is clear that even the most precise and most probable estimates of postwar savings and investment must hurdle the uncertainties and difficulties of the reconversion and transition periods before they can be confirmed, we do face a need for pushing a realistic examination of the mechanics of the postwar economy. We need more surveys of factors that can be measured—such as the distribution of consumers' wartime savings—and we need more intelligent study of the savings—investment equation. Above all, we require open-eyed and open-minded attention to the facts about postwar saving and investment as those facts become available during the earliest months of postwar experience—so that policy decisions may be made as speedily as possible.

The Editors of Business Week

WEEK AGO

> YEAR AGO

STAF OF VI

nt there as would product hat business know

the fact ing the

isumen

out just nose ind those es there te as to we don't se "noreffect of

consum-

For as re know on sumer business uipment

will run
to what
rise to;
st as we
e higher
not be
var inflags, or if,
he levels

cise and d investes of the can be realistic conomy. assured savings gs-investyed and ar saving e during at policy

Week 2, 1943

SINES SEK DEX